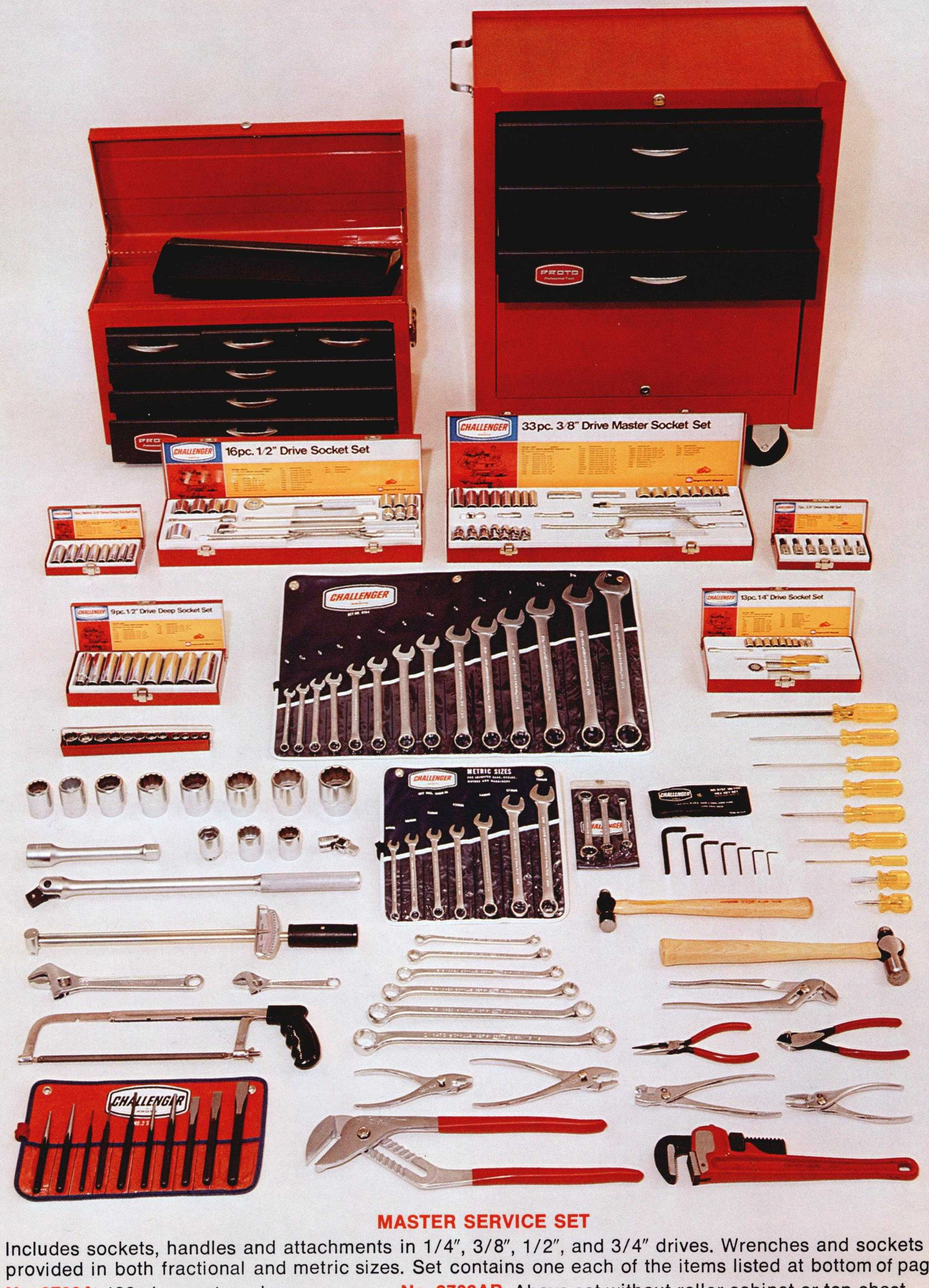
800
Weatherly
Index

CHALLENGER
by
PROTO

HAND TOOLS

INGERSOLL-RAND
PROFESSIONAL TOOLS

MASTER SERVICE SET

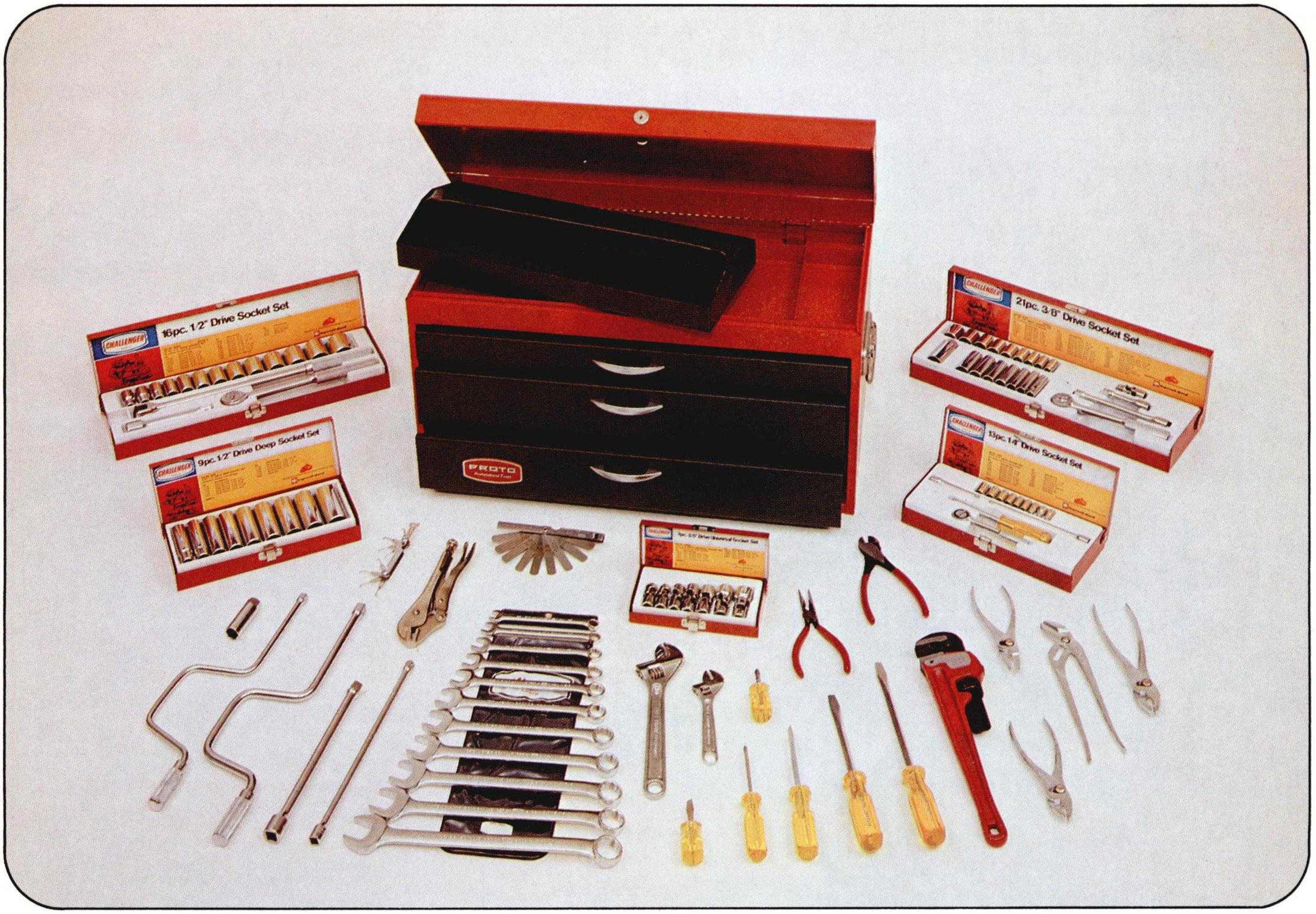

PROTO
CHALLENGER
16pc. 1/2" Drive Socket Set
33pc. 3/8" Drive Master Socket Set
9pc. 1/2" Drive Deep Socket Set
13pc. 1/4" Drive Socket Set
METRIC SIZES

MASTER SERVICE SET

Includes sockets, handles and attachments in 1/4″, 3/8″, 1/2″, and 3/4″ drives. Wrenches and sockets are provided in both fractional and metric sizes. Set contains one each of the items listed at bottom of page 1.

No. 2702A. 190 piece set as shown. **No. 2702AB.** Above set without roller cabinet or top chest.

BASIC SERVICE SET



CHALLENGER
16pc. 1/2" Drive Socket Set
9pc. 1/2" Drive Deep Socket Set
21pc. 3/8" Drive Socket Set
13pc. 1/4" Drive Socket Set
7pc. 3/8" Drive Universal Socket Set
PROTO

A selection of 101 basic hand tools necessary for general mechanical repair and service. Includes a complete offering of 1/4", 3/8" and 1/2" drive sockets and attachments with socket size openings ranging from 3/16" thru 1-1/4". Set also includes combination wrenches 3/8" thru 1" plus a selected assortment of screwdrivers, pliers, adjustable wrenches and feeler gauges in a full size top chest with lift-out tray. Set contains one each of the items listed below.

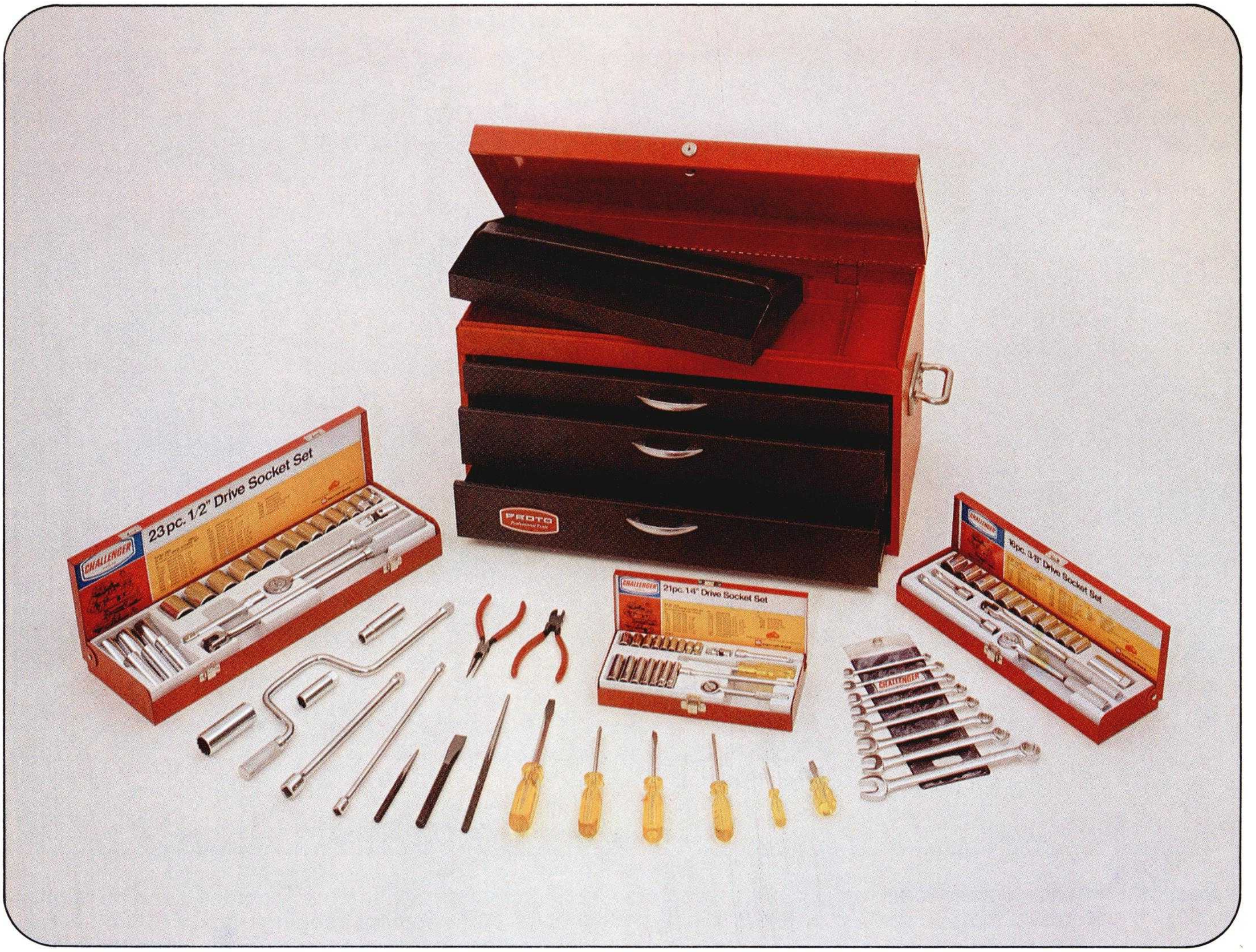
No. 2701A. 101 piece set as shown above. **No. 2701AB.** Above set without top chest.

Tool No.	Description	Tool No.	Description	Tool No.	Description
2304	13 Pc. 1/4" Drive Socket Set	6155	11 Pc. Combination Wrench Set	3377G	Pliers, H.D. Diagonal
2125	21 Pc. 3/8" Drive Socket Set	4006	Adjustable Wrench, 6"	7532	Screwdriver, Stubby
2405H	7 Pc. 3/8" Drive Univ. Socket Set	4010	Adjustable Wrench, 10"	7564	Screwdriver, 1/4" Sq. x 4"
1268	3/8" Drive Extension, 12"	814HD-FGD	Pipe Wrench, H.D., 14"	7576	Screwdriver, 5/16" Sq. x 6"
1275	3/8" Drive Speed Handle	3050G	Pliers, Needle Nose	7578	Screwdriver, 5/16" Sq. x 8"
1320HP	3/8" Drive Spark Plug Socket, 5/8"	3093	Pliers, Lever Jaw	7580	Screwdriver, Phillips #2 x 1-3/8"
2504A	16 Pc. 1/2" Drive Socket Set	3126	Pliers, Slip Joint, 6"	7581	Screwdriver, Phillips #1 x 3"
2505	9 Pc. 1/2" Drive Deep Socket Set	3148	Pliers, Slip Joint, 8"	0677	8 Wire Spark Plug Gauge
1667	1/2" Drive Extension, 10"	3246	Pliers, Thin Nose	0670	9 Blade Feeler Gauge
1675	1/2" Drive Speed Handle	3339	Pliers, Water Pump	9939	Top Chest, 3 Drawer with Tray

No. 2702A. 190 piece Master Service Set (pictured on page 1A).

Tool No.	Description	Tool No.	Description	Tool No.	Description
2304	13 Pc. 1/4" Drive Socket Set	1815A	3/4" Drive Extension, 8"	7582	Screwdriver, #2 Phillips x 4-1/2"
2400MA	12 Pc. 3/8" Drive Metric Socket Set	1870	3/4" Drive Flex Handle	3000	Pliers, Hose Clamp
2408M	8 Pc. 3/8" Dr. Metric Deep Skt. Set	6108	Combination Wrench, 1/8"	3050G	Pliers, Needle Nose
2433	33 Pc. 3/8" Drive Socket Set	6100M	7 Pc. Metric Comb. Wrench Set	3126	Pliers, Slip Joint, 6"
524	3/8" Dr. Skt., Stop Lite/Oil Pressure	6154	14 Pc. Combination Wrench Set	3148	Pliers, Slip Joint, 8"
2501A	16 Pc. 1/2" Drive Socket Set	6400S	3 Pc. Short Box Wrench Set	3263	Pliers, Power Track® II, 9-5/8"
2505	9 Pc. 1/2" Drive Deep Socket Set	6406	6 Pc. Box Wrench Set	3265G	Pliers, Power Track® II, 16-1/2"
1634	1/2" Drive Socket, 1-1/16"	1490A	7 Pc. 3/8" Drive Hex Bit Set	3246	Pliers, Thin Nose
1636	1/2" Drive Socket, 1-1/8"	9757	7 Pc. Punch and Chisel Set	3377G	Pliers, H.D. Diagonals
1680	1/2" Drive Universal Joint	100A	10 Pc. Punch and Chisel Set	4008	Adjustable Wrench, 8"
1834A	3/4" Drive Socket, 1-1/16"	7514	Screwdriver, 1/8" Round x 3-1/2"	4012	Adjustable Wrench, 12"
1836A	3/4" Drive Socket, 1-1/8"	7526	Screwdriver, 3/16" Round x 6"	814HD-FGD	Pipe Wrench, H.D., 14"
1840A	3/4" Drive Socket, 1-1/4"	7532	Screwdriver, 1/4" Square x 1-5/8"	7226	Hacksaw
1842A	3/4" Drive Socket, 1-5/16"	7534	Screwdriver, 1/4" Round x 4"	8516	Ball Pein Hammer, 1 lb.
1844A	3/4" Drive Socket, 1-3/8"	7536	Screwdriver, 1/4" Round x 6"	8524	Ball Pein Hammer, 1-1/2 lb.
1846A	3/4" Drive Socket, 1-7/16"	7578	Screwdriver, 5/16" Square x 8"	9709	Torque Wrench, 150 ft. lb./20 mkg
1848A	3/4" Drive Socket, 1-1/2"	7580	Screwdriver, #2 Phillips x 1-3/8"	9936	Top Chest, 6 Drawer
1852A	3/4" Drive Socket, 1-5/8"	7581	Screwdriver, #1 Phillips x 3"	9957	Roller Cabinet, 3 Drawer

MASTER COMBINATION SET


23 pc. 1/2" Drive Socket Set
CHALLENGER
PROTO
21 pc. 1/4" Drive Socket Set
CHALLENGER
16 pc. 3/8" Drive Socket Set
CHALLENGER

An 86 piece combination tool set that includes a complete selection of 1/4", 3/8" and 1/2" drive sockets, handles and attachments ranging in size from 3/16" thru 1-1/4". Plus combination wrenches, screwdrivers, pliers, punches and chisels in a full size top chest with lift-out tray. Set contains one each of the items listed below.

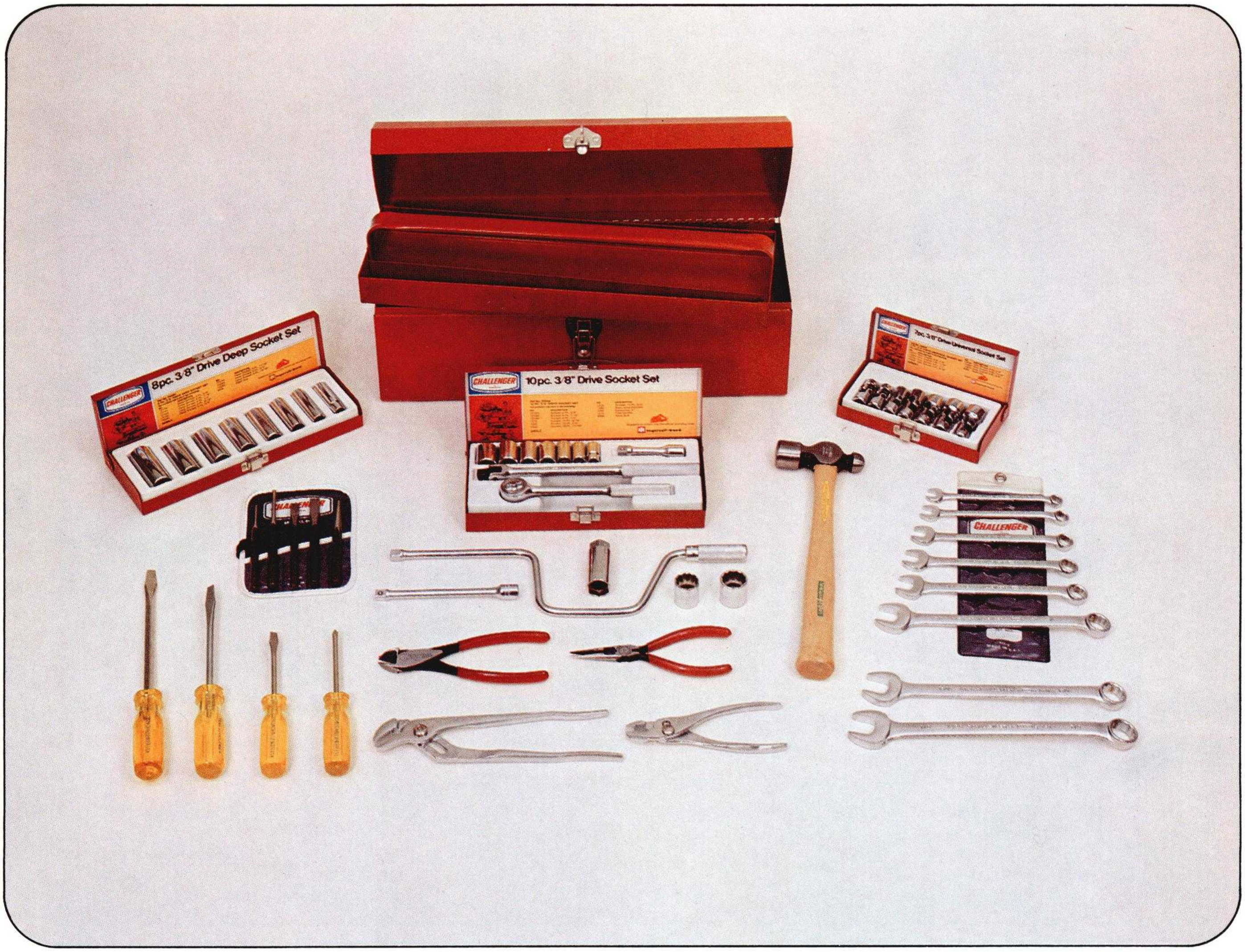
No. 2681. 86 piece set as shown. **No. 2681B.** Above set without top chest.

Tool No.	Description	Tool No.	Description	Tool No.	Description
2312	21 Pc. 1/4" Drive Socket Set	1716	1/2" Drive Deep Socket, 1/2"	7504	6 Pc. Screwdriver Set
2406A	16 Pc. 3/8" Drive Socket Set	1730	1/2" Drive Deep Socket, 15/16"	74A	Cold Chisel, 5/8" Cut
1268	3/8" Drive Extension, 12"	6104	6 Pc. Combination Wrench Set	87A	Prick Punch
1320HP	3/8" Drive Spark Plug Socket, 5/8"	6108	Combination Wrench, 1/4"	95A	Long Taper Punch
2509	23 Pc. 1/2" Drive Socket Set	6110	Combination Wrench, 5/16"	9939	Top Chest, 3 Drawer
1667	1/2" Drive Extension, 10"	3050G	Pliers, Needle Nose		
1675	1/2" Drive Speed Handle	3366G	Pliers, Diagonal		

CHALLENGER HAND TOOLS

Everything about the Challenger line says value. From its professional design and construction to its balanced feel and rugged good looks. And with the quality and breadth of line to satisfy the most demanding and discriminating mechanic. And small wonder. Challenger comes from one of the oldest, most respected names in the business. Proto. The company that's been making professional hand tools for professional mechanics for nearly three quarters of a century.

BASIC TOOL SET

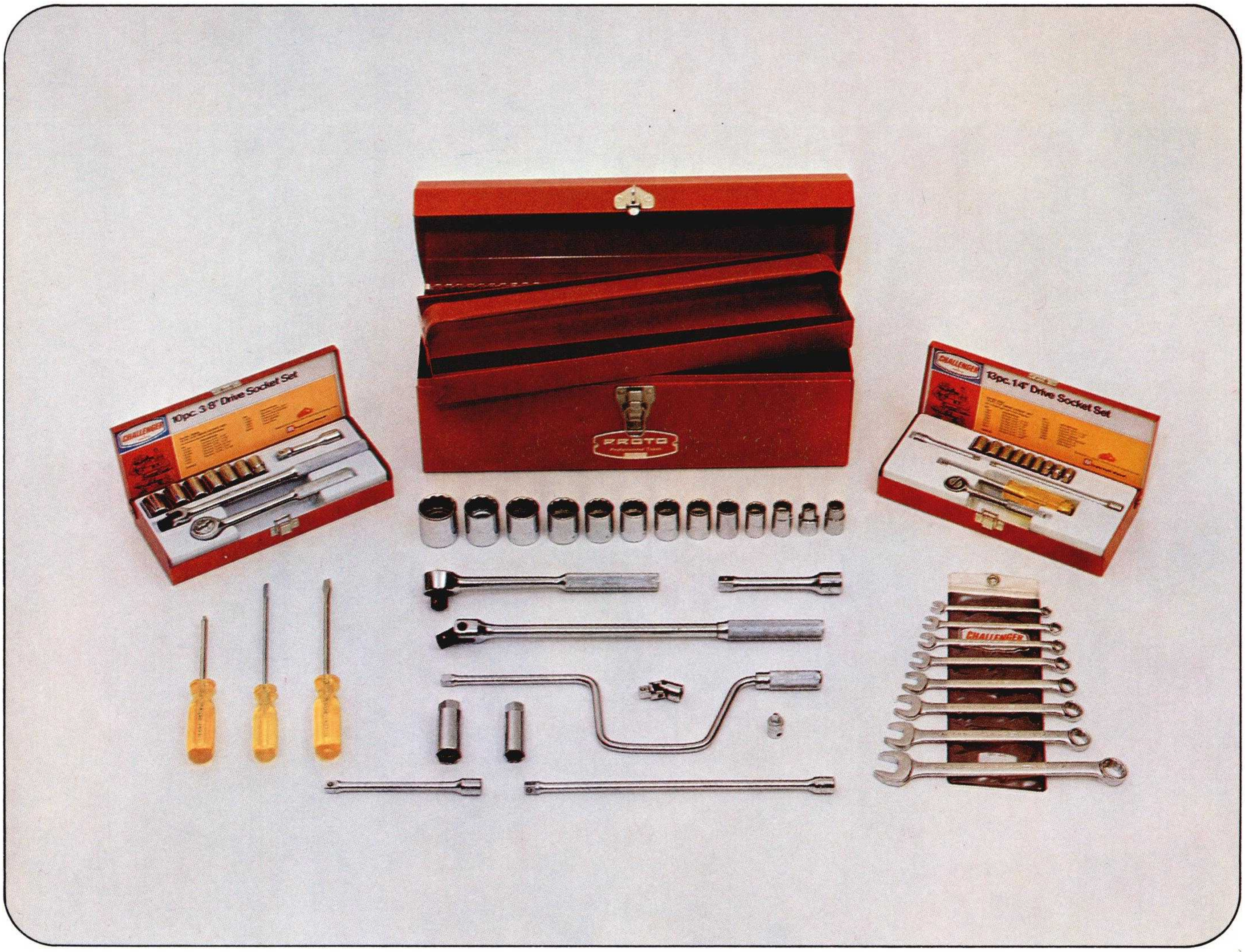

CHALLENGER
8pc. 3/8" Drive Deep Socket Set
10 pc. 3/8" Drive Socket Set
7pc. 3/8" Drive Universal Socket Set

A good basic 53 piece tool set designed for general maintenance and repair work. Ideal for shop or home use. Includes a complete selection of 3/8" drive sockets and attachments including standard length, deep length, universal and spark plug sockets plus reversible ratchet, flex handle, speed handle and two extensions. Also included are a five piece punch and chisel set, a one pound ball pein hammer, one Phillips and three standard screwdrivers, one each slip joint, groove joint, needle nose and diagonal cutting pliers and a set of eight combination wrenches 3/8" thru 7/8". Comes complete with a hip roof tool chest with removable tote tray. Set contains one each of the items listed below.

No. 2650A. 53 piece set as shown.

Tool No.	Description
2054A	10 Pc. 3/8" Drive Socket Set
	(Includes):
	Reversible Ratchet
	Flex Handle
	Extension, 3"
	Socket, 3/8"
	Socket, 7/16"
	Socket, 1/2"
	Socket, 9/16"
	Socket, 5/8"
	Socket, 11/16"
	Socket, 3/4"
2405H	7 Pc. 3/8" Drive Universal Socket Set
	(Includes):
	Universal Socket, 3/8"
	Universal Socket, 7/16"
	Universal Socket, 1/2"
	Universal Socket, 9/16"
	Universal Socket, 5/8"
	Universal Socket, 11/16"
	Universal Socket, 3/4"
2408H	8 Pc. 3/8" Drive Deep Socket Set
	(Includes):
	Deep Socket, 3/8"
	Deep Socket, 7/16"
	Deep Socket, 1/2"
	Deep Socket, 9/16"
	Deep Socket, 5/8"
	Deep Socket, 11/16"
	Deep Socket, 3/4"
	Deep Socket, 13/16"
1226	3/8" Drive Socket, 13/16"
1228	3/8" Drive Socket, 7/8"
1326HP	3/8" Drive Spark Plug Socket, 13/16"
1266	3/8" Drive Extension, 6"
1275	3/8" Drive Speed Handle
6104	6 Pc. Combination Wrench Set
	(Includes):
	Combination Wrench, 3/8"
	Combination Wrench, 7/16"
	Combination Wrench, 1/2"
	Combination Wrench, 9/16"
	Combination Wrench, 5/8"
	Combination Wrench, 3/4"
6126	Combination Wrench, 13/16"
6128	Combination Wrench, 7/8"
3050G	Pliers, Needle Nose
3126	Pliers, Slip Joint
3263	Pliers, Power Track® II
3377G	Pliers, Diagonal Cutting
7534	Screwdriver, 1/4" Round x 4"
7546	Screwdriver, 5/16" Round x 6"
7578	Screwdriver, 5/16" Square x 8"
7582	Screwdriver, #2 Phillips x 4"
99A	5 Pc. Punch and Chisel Set
	(Includes):
	Pin Punch, 3/32" End Diameter
	Pin Punch, 3/16" End Diameter
	Cold Chisel, 3/8" Cut
	Cold Chisel, 7/16" Cut
	Prick Punch
8516	Ball Pein Hammer, 1 Lb.
9971	Hip Roof Box with Tote Tray

GENERAL PURPOSE SET

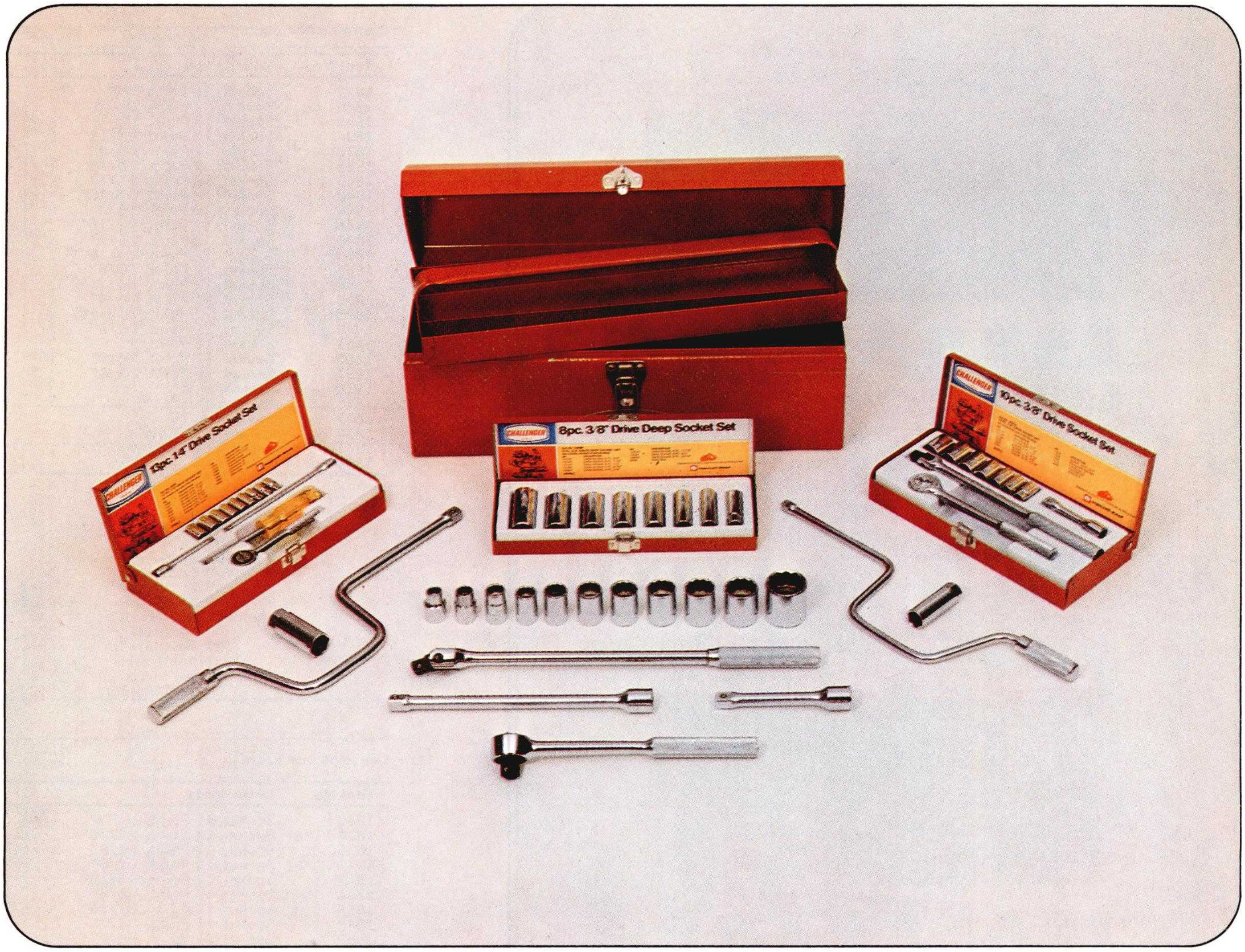


A selection of 58 basic tools for all-around mechanical work including general repair and maintenance. A wide variety of sockets, handles and attachments is offered in ¼″, ⅜″ and ½″ drives, which include a range of socket opening sizes from 3⁄16″ thru 1¼″. A ⅝″ spark plug socket and a 13⁄16″ spark plug socket, both ⅜″ drive, are included. Also included are eight combination wrenches ¼″ thru ¾″ and three screwdrivers, two standard and one Phillips. All in a hip roof utility tool chest with lift-out tote tray. Set contains one each of the items listed below.

No. 2654. 58 piece set as shown.

Tool No.	Description
2304	13 Pc. 1/4″ Drive Socket Set
	(Includes):
	Socket, 3/16″
	Socket, 7/32″
	Socket, 1/4″
	Socket, 9/32″
	Socket, 5/16″
	Socket, 11/32″
	Socket, 3/8″
	Socket, 7/16″
	Socket, 1/2″
	Reversible Ratchet
	Extension, 3″
	Extension, 6″
	Socket Drive Handle
2054A	10 Pc. 3/8″ Drive Socket Set
	(Includes):
	Socket, 3/8″
	Socket, 7/16″
	Socket, 1/2″
	Socket, 9/16″
	Socket, 5/8″
	Socket, 11/16″
	Socket, 3/4″
	Reversible Ratchet
	Flex Handle
	Extension, 3″
1266	3/8″ Drive Extension, 6″
1268	3/8″ Drive Extension, 12″
1275	3/8″ Drive Speed Handle
1280	3/8″ Drive Universal Joint
1253	Adapter, 3/8″ F x 1/4″ M
1320HP	3/8″ Drive Spark Plug Socket, 5/8″
1326HP	3/8″ Drive Spark Plug Socket, 13/16″
2504A	16 Pc. 1/2″ Drive Socket Set
	(Includes):
	Socket, 7/16″
	Socket, 1/2″
	Socket, 9/16″
	Socket, 5/8″
	Socket, 11/16″
	Socket, 3/4″
	Socket, 13/16″
	Socket, 7/8″
	Socket, 15/16″
	Socket, 1″
	Socket, 1-1/16″
	Socket, 1-1/8″
	Socket, 1-1/4″
	Reversible Ratchet
	Flex Handle
	Extension, 5″
6104	6 Pc. Combination Wrench Set
	(Includes):
	Combination Wrench, 3/8″
	Combination Wrench, 7/16″
	Combination Wrench, 1/2″
	Combination Wrench, 9/16″
	Combination Wrench, 5/8″
	Combination Wrench, 3/4″
6108	Combination Wrench, 1/4″
6110	Combination Wrench, 5/16″
7526	Screwdriver, 3/16″ Round x 6″
7536	Screwdriver, 1/4″ Round x 6″
7582	Screwdriver, #2 Phillips x 4″
9971	Hip Roof Box with Tote Tray

MIXED DRIVE SOCKET SET

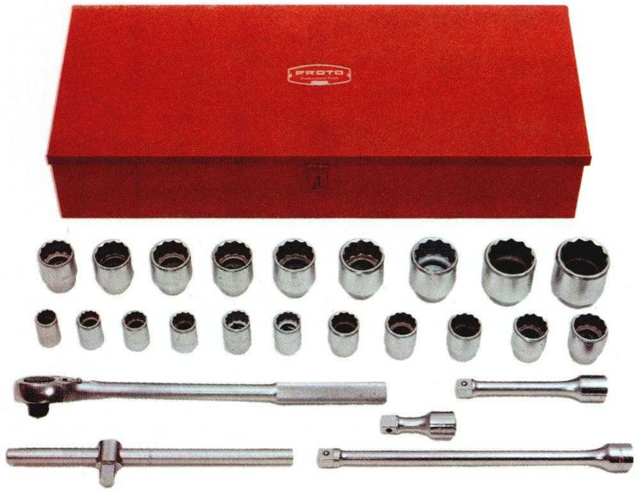

13pc. 1/4" Drive Socket Set
8pc. 3/8" Drive Deep Socket Set
10pc. 3/8" Drive Socket Set
CHALLENGER

A specially selected set of 51 different sockets, handles and attachments in three drive sizes. Socket size openings range from 3⁄16″ thru ½″ in ¼″ drive, ⅜″ thru 13⁄16″ in ⅜″ drive and 7⁄16″ thru 1¼″ in ½″ drive. Deep length spark plug sockets in both ⅝″ and 13⁄16″ sizes are also provided. Both are fitted with neoprene inserts designed to grip spark plugs securely and prevent porcelain damage. A variety of ratchets, handles and extensions are included to handle almost every basic nut turning situation where socket wrenches are required. The ⅜″ and ½″ drive ratchets have precision 60 teeth action providing extra smooth operation and only six degree arc to obtain new "bite." Sockets are thin-wall alloy steel. Set comes in a spacious hip roof box with handy lift-out tray. Set contains one each of the items listed below.

No. 2601A. 51 piece set as shown.

Tool No.	Description
2304	13 Pc. 1/4″ Drive Socket Set
	(Includes):
	Socket, 3/16″
	Socket, 7/32″
	Socket, 1/4″
	Socket, 9/32″
	Socket, 5/16″
	Socket, 11/32″
	Socket, 3/8″
	Socket, 7/16″
	Socket, 1/2″
	Reversible Ratchet
	Extension, 3″
	Extension, 6″
	Socket Drive Handle
2054A	10 Pc. 3/8″ Drive Socket Set
	(Includes):
	Socket, 3/8″
	Socket, 7/16″
	Socket, 1/2″
	Socket, 9/16″
	Socket, 5/8″
	Socket, 11/16″
	Socket, 3/4″
	Reversible Ratchet
	Flex Handle
	Extension, 3″
2408H	8 Pc. 3/8″ Drive Deep Socket Set
	(Includes):
	Deep Socket, 3/8″
	Deep Socket, 7/16″
	Deep Socket, 1/2″
	Deep Socket, 9/16″
	Deep Socket, 5/8″
	Deep Socket, 11/16″
	Deep Socket, 3/4″
	Deep Socket, 13/16″
1320HP	3/8″ Drive Spark Plug Socket, 5/8″
1275	3/8″ Drive Speed Handle
2506	12 Pc. 1/2″ Drive Socket Set
	(Includes):
	Socket, 7/16″
	Socket, 1/2″
	Socket, 9/16″
	Socket, 5/8″
	Socket, 11/16″
	Socket, 3/4″
	Socket, 13/16″
	Socket, 7/8″
	Socket, 15/16″
	Reversible Ratchet
	Extension, 5″
	Spark Plug Socket, 13/16″
1632	1/2″ Drive Socket, 1″
1640	1/2″ Drive Socket, 1-1/4″
1667	1/2″ Drive Extension, 10″
1670	1/2″ Drive Flex Handle
1675	1/2″ Drive Speed Handle
9971	Hip Roof Box with Tote Tray

3/4" DRIVE SOCKET SETS

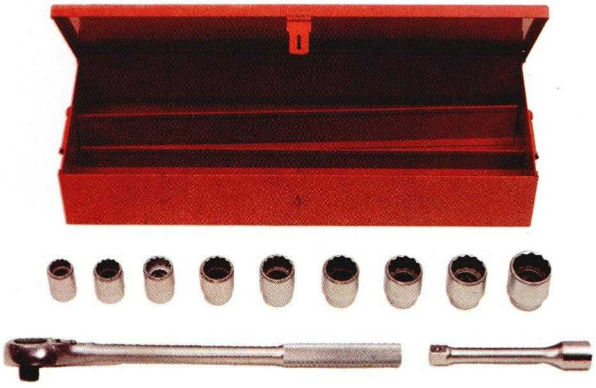


A

A. **No. 4906.** 25 Pc. 3/4" Drive Socket Set

Contains one each:

Tool No.	Description
1828	Socket, 12 Point, 7/8"
1830	Socket, 12 Point, 15/16"
1832	Socket, 12 Point, 1"
1834	Socket, 12 Point, 1-1/16"
1836	Socket, 12 Point, 1-1/8"
1838	Socket, 12 Point, 1-3/16"
1840	Socket, 12 Point, 1-1/4"
1842	Socket, 12 Point, 1-5/16"
1844	Socket, 12 Point, 1-3/8"
1846	Socket, 12 Point, 1-7/16"
1848	Socket, 12 Point, 1-1/2"
1850	Socket, 12 Point, 1-9/16"
1852	Socket, 12 Point, 1-5/8"
1854	Socket, 12 Point, 1-11/16"
1856	Socket, 12 Point, 1-3/4"
1858	Socket, 12 Point, 1-13/16"
1860	Socket, 12 Point, 1-7/8"
1864	Socket, 12 Point, 2"
1865	Socket, 12 Point, 2-1/8"
1867	Socket, 12 Point, 2-1/4"
1813	Extension, 4"
1815	Extension, 8"
1817	Extension, 16"
1818	Sliding T-Handle
1861	Reversible Ratchet
5696	Steel Box

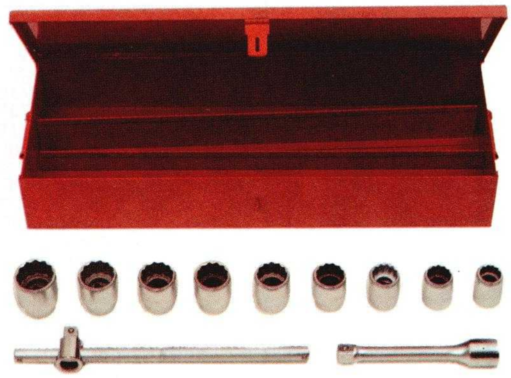


B

B. **No. 4905.** 11 Pc. 3/4" Drive Socket Set

Contains one each:

Tool No.	Description
1830	Socket, 12 Point, 15/16"
1834	Socket, 12 Point, 1-1/16"
1836	Socket, 12 Point, 1-1/8"
1840	Socket, 12 Point, 1-1/4"
1842	Socket, 12 Point, 1-5/16"
1844	Socket, 12 Point, 1-3/8"
1846	Socket, 12 Point, 1-7/16"
1848	Socket, 12 Point, 1-1/2"
1852	Socket, 12 Point, 1-5/8"
1815	Extension, 8"
1861	Reversible Ratchet
5696	Steel Box



C

C. **No. 4901.** 11 Pc. 3/4" Drive Socket Set

Contains one each:

Tool No.	Description
1830	Socket, 12 Point, 15/16"
1834	Socket, 12 Point, 1-1/16"
1836	Socket, 12 Point, 1-1/8"
1840	Socket, 12 Point, 1-1/4"
1842	Socket, 12 Point, 1-5/16"
1844	Socket, 12 Point, 1-3/8"
1846	Socket, 12 Point, 1-7/16"
1848	Socket, 12 Point, 1-1/2"
1852	Socket, 12 Point, 1-5/8"
1815	Extension, 8"
1818	Sliding T-Handle
5696	Steel Box

1/2" DRIVE SOCKET SETS

A. No. 2509. 23 Pc. 1/2" Drive Socket Set

Tool No.	Description
1614H	Socket, 6 Point, 7/16"
1616H	Socket, 6 Point, 1/2"
1618H	Socket, 6 Point, 9/16"
1620	Socket, 12 Point, 5/8"
1622	Socket, 12 Point, 11/16"
1624	Socket, 12 Point, 3/4"
1626	Socket, 12 Point, 13/16"
1628	Socket, 12 Point, 7/8"
1630	Socket, 12 Point, 15/16"
1632	Socket, 12 Point, 1"
1634	Socket, 12 Point, 1-1/16"
1636	Socket, 12 Point, 1-1/8"
1640	Socket, 12 Point, 1-1/4"
1718	Deep Socket, 12 Point, 9/16"
1720	Deep Socket, 12 Point, 5/8"
1722	Deep Socket, 12 Point, 11/16"
1724	Deep Socket, 12 Point, 3/4"
1726	Deep Socket, 12 Point, 13/16"
1728	Deep Socket, 12 Point, 7/8"
1660	Reversible Ratchet
1666	Extension, 5"
1670	Flex Handle
1680	Universal Joint
9010	Steel Box

B. No. 2501A. 16 Pc. 1/2" Drive Socket Set

1614	Socket, 12 Point, 7/16"
1616	Socket, 12 Point, 1/2"
1618	Socket, 12 Point, 9/16"
1620	Socket, 12 Point, 5/8"
1622	Socket, 12 Point, 11/16"
1624	Socket, 12 Point, 3/4"
1626	Socket, 12 Point, 13/16"
1628	Socket, 12 Point, 7/8"
1630	Socket, 12 Point, 15/16"
1632	Socket, 12 Point, 1"
1640	Socket, 12 Point, 1-1/4"
1660	Reversible Ratchet
1666	Extension, 5"
1667	Extension, 10"
1670	Flex Handle
1675	Speed Handle
9010	Steel Box

C. No. 2504A. 16 Pc. 1/2" Drive Socket Set

1614H	Socket, 6 Point, 7/16"
1616H	Socket, 6 Point, 1/2"
1618H	Socket, 6 Point, 9/16"
1620	Socket, 12 Point, 5/8"
1622	Socket, 12 Point, 11/16"
1624	Socket, 12 Point, 3/4"
1626	Socket, 12 Point, 13/16"
1628	Socket, 12 Point, 7/8"
1630	Socket, 12 Point, 15/16"
1632	Socket, 12 Point, 1"
1634	Socket, 12 Point, 1-1/16"
1636	Socket, 12 Point, 1-1/8"
1640	Socket, 12 Point, 1-1/4"
1660	Reversible Ratchet
1666	Extension, 5"
1670	Flex Handle
9005	Steel Box

D. No. 2506. 12 Pc. 1/2" Drive Socket Set

1614H	Socket, 6 Point, 7/16"
1616H	Socket, 6 Point, 1/2"
1618H	Socket, 6 Point, 9/16"
1620	Socket, 12 Point, 5/8"
1622	Socket, 12 Point, 11/16"
1624	Socket, 12 Point, 3/4"
1626	Socket, 12 Point, 13/16"
1628	Socket, 12 Point, 7/8"
1630	Socket, 12 Point, 15/16"
1726HP	Spark Plug Socket, 13/16"
1660	Reversible Ratchet
1666	Extension, 5"
9004	Steel Box

E. No. 2505. 9 Pc. 1/2" Drive Deep Socket Set

1716	Deep Socket, 12 Point, 1/2"
1718	Deep Socket, 12 Point, 9/16"
1720	Deep Socket, 12 Point, 5/8"
1722	Deep Socket, 12 Point, 11/16"
1724	Deep Socket, 12 Point, 3/4"
1726	Deep Socket, 12 Point, 13/16"
1728	Deep Socket, 12 Point, 7/8"
1730	Deep Socket, 12 Point, 15/16"
1732	Deep Socket, 12 Point, 1"
9009	Steel Box

F. No. 2508. 13 Pc. 1/2" Drive Socket Set

1614H	Socket, 6 Point, 7/16"
1616H	Socket, 6 Point, 1/2"
1618H	Socket, 6 Point, 9/16"
1620	Socket, 12 Point, 5/8"
1622	Socket, 12 Point, 11/16"
1624	Socket, 12 Point, 3/4"
1626	Socket, 12 Point, 13/16"
1628	Socket, 12 Point, 7/8"
1630	Socket, 12 Point, 15/16"
1632	Socket, 12 Point, 1"
1634	Socket, 12 Point, 1-1/16"
1636	Socket, 12 Point, 1-1/8"
1640	Socket, 12 Point, 1-1/4"
9032	Steel Tray

CHALLENGER
23 pc. 1/2" Drive Socket Set
Ingersoll-Rand

A.

CHALLENGER
16pc. 1/2" Drive Socket Set
Ingersoll-Rand

B.

CHALLENGER
16pc. 1/2" Drive Socket Set
Ingersoll-Rand

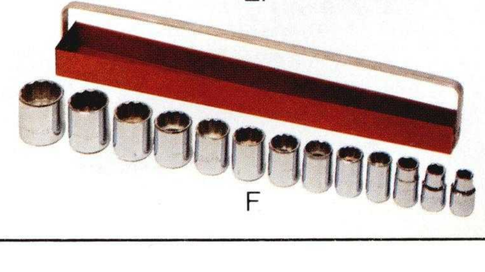
C.

CHALLENGER
12pc. 1/2" Drive Socket Set
Ingersoll-Rand

D.

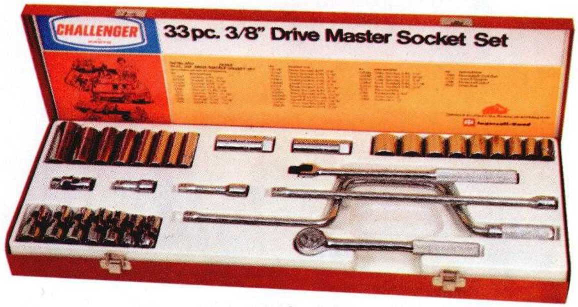
CHALLENGER
9pc. 1/2" Drive Deep Socket Set
Ingersoll-Rand

E.



F

3/8" DRIVE SOCKET SETS



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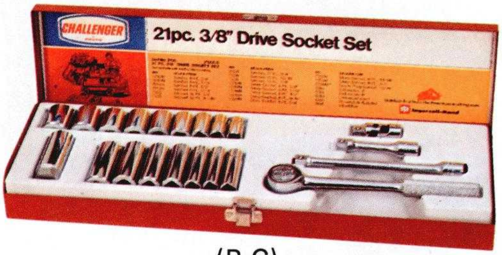

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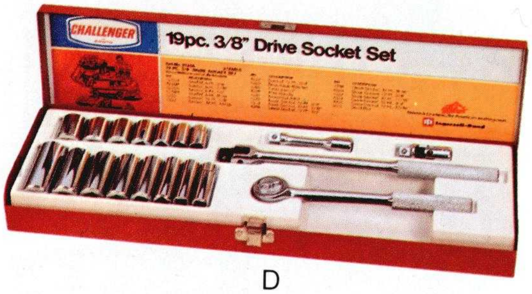

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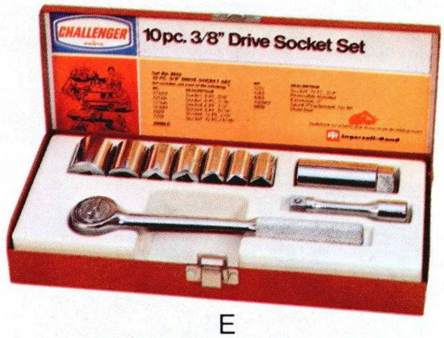

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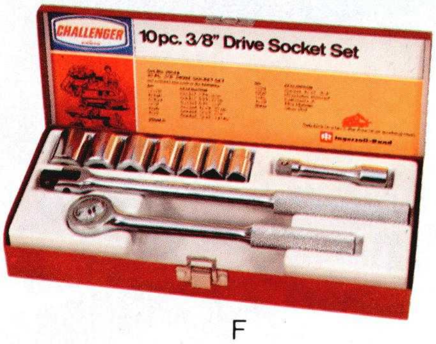


F

A. No. 2433. 33 Pc. 3/8" Drive Master Socket Set

Tool No.	Description
1212H	Socket, 6 Point, 3/8"
1214H	Socket, 6 Point, 7/16"
1216H	Socket, 6 Point, 1/2"
1218H	Socket, 6 Point, 9/16"
1220	Socket, 12 Point, 5/8"
1222	Socket, 12 Point, 11/16"
1224	Socket, 12 Point, 3/4"
1226	Socket, 12 Point, 13/16"
1228	Socket, 12 Point, 7/8"
1312H	Deep Socket, 6 Point, 3/8"
1314H	Deep Socket, 6 Point, 7/16"
1316H	Deep Socket, 6 Point, 1/2"
1318H	Deep Socket, 6 Point, 9/16"
1320H	Deep Socket, 6 Point, 5/8"
1322H	Deep Socket, 6 Point, 11/16"
1324H	Deep Socket, 6 Point, 3/4"
1326H	Deep Socket, 6 Point, 13/16"
1320HP	Spark Plug Socket, 5/8"
1326HP	Spark Plug Socket, 13/16"
1281H	Universal Socket, 6 Point, 3/8"
1282H	Universal Socket, 6 Point, 7/16"
1283H	Universal Socket, 6 Point, 1/2"
1284H	Universal Socket, 6 Point, 9/16"
1285H	Universal Socket, 6 Point, 5/8"
1286H	Universal Socket, 6 Point, 11/16"
1287H	Universal Socket, 6 Point, 3/4"
1260	Reversible Ratchet
1264	Extension, 1-1/2"
1265	Extension, 3"
1268	Extension, 12"
1270	Flex Handle
1275	Speed Handle
1280	Universal Joint
9012	Steel Box

B. No. 2125. 21 Pc. 3/8" Drive Socket Set

Tool No.	Description
1212H	Socket, 6 Point, 3/8"
1214H	Socket, 6 Point, 7/16"
1216H	Socket, 6 Point, 1/2"
1218H	Socket, 6 Point, 9/16"
1220	Socket, 12 Point, 5/8"
1222	Socket, 12 Point, 11/16"
1224	Socket, 12 Point, 3/4"
1226	Socket, 12 Point, 13/16"
1228	Socket, 12 Point, 7/8"
1312H	Deep Socket, 6 Point, 3/8"
1314H	Deep Socket, 6 Point, 7/16"
1316H	Deep Socket, 6 Point, 1/2"
1318H	Deep Socket, 6 Point, 9/16"
1320H	Deep Socket, 6 Point, 5/8"
1322H	Deep Socket, 6 Point, 11/16"
1324H	Deep Socket, 6 Point, 3/4"
1326HP	Spark Plug Socket, 13/16"
1260	Reversible Ratchet
1265	Extension, 3"
1266	Extension, 6"
1280	Universal Joint
9005	Steel Box

C. ★ No. 2127. 20 Pc. 3/8" Drive Socket Set

Same as No. 2125 (Item B above), but with the following two exceptions: 1) Universal Joint (1280) is deleted. 2) 5/8" Spark Plug Socket (1320HP) replaces 13/16" Spark Plug Socket (1326HP).

D. No. 2124A. 19 Pc. 3/8" Drive Socket Set

Tool No.	Description
1212H	Socket, 6 Point, 3/8"
1214H	Socket, 6 Point, 7/16"
1216H	Socket, 6 Point, 1/2"
1218H	Socket, 6 Point, 9/16"
1220	Socket, 12 Point, 5/8"
1222	Socket, 12 Point, 11/16"
1224	Socket, 12 Point, 3/4"
1326HP	Spark Plug Socket, 13/16"
1260	Reversible Ratchet
1265	Extension, 3"
9009	Steel Box

E. No. 2055. 10 Pc. 3/8" Drive Socket Set

Tool No.	Description	Tool No.	Description
1212H	Skt., 6 Pt., 3/8"	1224	Skt., 12 Pt., 3/4"
1214H	Skt., 6 Pt., 7/16"	1326HP	Plug Skt., 13/16"
1216H	Skt., 6 Pt., 1/2"	1260	Ratchet
1218H	Skt., 6 Pt., 9/16"	1265	Extension, 3"
1220	Skt., 12 Pt., 5/8"	9009	Steel Box
1222	Skt., 12 Pt., 11/16"		

F. No. 2054A. 10 Pc. 3/8" Drive Socket Set

Tool No.	Description	Tool No.	Description
1212H	Skt., 6 Pt., 3/8"	1224	Skt., 12 Pt., 3/4"
1214H	Skt., 6 Pt., 7/16"	1260	Ratchet
1216H	Skt., 6 Pt., 1/2"	1265	Extension, 3"
1218H	Skt., 6 Pt., 9/16"	1270	Flex Handle
1220	Skt., 12 Pt., 5/8"	9009	Steel Box
1222	Skt., 12 Pt., 11/16"		

★New Item!

3/8" DRIVE SOCKET SETS

A. No. 2406A. 16 Pc. 3/8" Drive Socket Set

Tool No.	Description
1212H	Socket, 6 Point, 3/8"
1214H	Socket, 6 Point, 7/16"
1216H	Socket, 6 Point, 1/2"
1218H	Socket, 6 Point, 9/16"
1220	Socket, 12 Point, 5/8"
1222	Socket, 12 Point, 11/16"
1224	Socket, 12 Point, 3/4"
1226	Socket, 12 Point, 13/16"
1228	Socket, 12 Point, 7/8"
1230	Socket, 12 Point, 15/16"
1232	Socket, 12 Point, 1"
1326HP	Spark Plug Socket, 13/16"
1260	Reversible Ratchet
1265	Extension, 3"
1266	Extension, 6"
1270	Flex Handle
9004	Steel Box

B. ★No. 2053. 7 Pc. 3/8" Drive Socket Set

Tool No.	Description
1212H	Socket, 6 Point, 3/8"
1214H	Socket, 6 Point, 7/16"
1216H	Socket, 6 Point, 1/2"
1218H	Socket, 6 Point, 9/16"
1220H	Socket, 6 Point, 5/8"
1224H	Socket, 6 Point, 3/4"
1260	Reversible Ratchet

C. No. 2408A. 8 Pc. 3/8" Drive Deep Socket Set 12 Point

Tool No.	Description
1312	Deep Socket, 12 Point, 3/8"
1314	Deep Socket, 12 Point, 7/16"
1316	Deep Socket, 12 Point, 1/2"
1318	Deep Socket, 12 Point, 9/16"
1320	Deep Socket, 12 Point, 5/8"
1322	Deep Socket, 12 Point, 11/16"
1324	Deep Socket, 12 Point, 3/4"
1326	Deep Socket, 12 Point, 13/16"
9006	Steel Box

D. No. 2408H. 8 Pc. 3/8" Drive Deep Socket Set 6 Point

Tool No.	Description
1312H	Deep Socket, 6 Point, 3/8"
1314H	Deep Socket, 6 Point, 7/16"
1316H	Deep Socket, 6 Point, 1/2"
1318H	Deep Socket, 6 Point, 9/16"
1320H	Deep Socket, 6 Point, 5/8"
1322H	Deep Socket, 6 Point, 11/16"
1324H	Deep Socket, 6 Point, 3/4"
1326H	Deep Socket, 6 Point, 13/16"
9006	Steel Box

E. No. 2410. 9 Pc. 3/8" Drive Socket Set

Tool No.	Description
1212H	Socket, 6 Point, 3/8"
1214H	Socket, 6 Point, 7/16"
1216H	Socket, 6 Point, 1/2"
1218H	Socket, 6 Point, 9/16"
1220	Socket, 12 Point, 5/8"
1222	Socket, 12 Point, 11/16"
1224	Socket, 12 Point, 3/4"
1226	Socket, 12 Point, 13/16"
1228	Socket, 12 Point, 7/8"
9031	Steel Tray

F. No. 2405H. 7 Pc. 3/8" Drive Universal Socket Set

Tool No.	Description
1281H	Universal Socket, 6 Point, 3/8"
1282H	Universal Socket, 6 Point, 7/16"
1283H	Universal Socket, 6 Point, 1/2"
1284H	Universal Socket, 6 Point, 9/16"
1285H	Universal Socket, 6 Point, 5/8"
1286H	Universal Socket, 6 Point, 11/16"
1287H	Universal Socket, 6 Point, 3/4"
9002	Steel Box

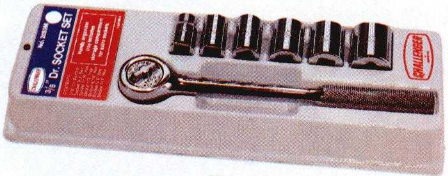
G. No. 1490A. 7 Pc. 3/8" Drive Hex Bit Set

Tool No.	Description
1490 1/8	Hex Bit, 1/8"
1490 5/32	Hex Bit, 5/32"
1490 3/16	Hex Bit, 3/16"
1490 7/32	Hex Bit, 7/32"
1490 1/4	Hex Bit, 1/4"
1490 5/16	Hex Bit, 5/16"
1490 3/8	Hex Bit, 3/8"
9002	Steel Box

★New Item!

CHALLENGER
16pc. 3/8" Drive Socket Set

A



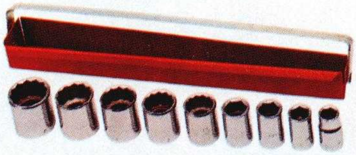
B

CHALLENGER
8pc. 3/8" Drive Deep Socket Set

C

CHALLENGER
8pc. 3/8" Drive Deep Socket Set

D



E

CHALLENGER
7pc. 3/8" Drive Universal Socket Set

F

CHALLENGER
7pc. 3/8" Drive Hex Bit Set

G

1/4" DRIVE SOCKET SETS

CHALLENGER
21pc. 1/4" Drive Socket Set

A

A. **No. 2312.** 21 Pc. 1/4" Drive Socket Set

Contains one each:

Tool No.	Description
1006	Socket, 6 Point, 3/16"
1007	Socket, 6 Point, 7/32"
1008	Socket, 6 Point, 1/4"
1009	Socket, 6 Point, 9/32"
1010	Socket, 6 Point, 5/16"
1011	Socket, 6 Point, 11/32"
1012	Socket, 6 Point, 3/8"
1014	Socket, 6 Point, 7/16"
1016	Socket, 6 Point, 1/2"
1108	Deep Socket, 6 Point, 1/4"
1109	Deep Socket, 6 Point, 9/32"
1110	Deep Socket, 6 Point, 5/16"
1111	Deep Socket, 6 Point, 11/32"
1112	Deep Socket, 6 Point, 3/8"
1114	Deep Socket, 6 Point, 7/16"
1116	Deep Socket, 6 Point, 1/2"
1060	Reversible Ratchet
1065	Extension, 3"
1066	Extension, 6"
1069	Socket Driver
1080	Universal Joint
9009	Steel Box

CHALLENGER
13pc. 1/4" Drive Socket Set

B

B. **No. 2304.** 13 Pc. 1/4" Drive Socket Set

Contains one each:

Tool No.	Description
1006	Socket, 6 Point, 3/16"
1007	Socket, 6 Point, 7/32"
1008	Socket, 6 Point, 1/4"
1009	Socket, 6 Point, 9/32"
1010	Socket, 6 Point, 5/16"
1011	Socket, 6 Point, 11/32"
1012	Socket, 6 Point, 3/8"
1014	Socket, 6 Point, 7/16"
1016	Socket, 6 Point, 1/2"
1060	Reversible Ratchet
1065	Extension, 3"
1066	Extension, 6"
1069	Socket Driver
9009	Steel Box

CHALLENGER
10pc. 1/4" Drive Socket Set

C

C. **No. 2302.** 10 Pc. 1/4" Drive Socket Set

Contains one each:

Tool No.	Description
1006	Socket, 6 Point, 3/16"
1007	Socket, 6 Point, 7/32"
1008	Socket, 6 Point, 1/4"
1009	Socket, 6 Point, 9/32"
1010	Socket, 6 Point, 5/16"
1011	Socket, 6 Point, 11/32"
1012	Socket, 6 Point, 3/8"
1014	Socket, 6 Point, 7/16"
1016	Socket, 6 Point, 1/2"
1069	Socket Driver
9002	Steel Box

CHALLENGER
7pc. 1/4" Drive Deep Socket Set

D

D. **No. 2300A.** 7 Pc. 1/4" Drive Deep Socket Set

Contains one each:

Tool No.	Description
1108	Deep Socket, 6 Point, 1/4"
1109	Deep Socket, 6 Point, 9/32"
1110	Deep Socket, 6 Point, 5/16"
1111	Deep Socket, 6 Point, 11/32"
1112	Deep Socket, 6 Point, 3/8"
1114	Deep Socket, 6 Point, 7/16"
1116	Deep Socket, 6 Point, 1/2"
9002	Steel Box

CHALLENGER
tools tools

E

E. **No. C1099.** 7 Pc. 1/4" Drive Socket Set (Carded)

Contains one each:

Tool No.	Description
1008	Socket, 6 Point, 1/4"
1009	Socket, 6 Point, 9/32"
1010	Socket, 6 Point, 5/16"
1011	Socket, 6 Point, 11/32"
1012	Socket, 6 Point, 3/8"
1014	Socket, 6 Point, 7/16"
1063	Socket Driver

MIXED DRIVE & SPECIAL SETS

A. **No. 2095A.** 23 Pc. 1/4″ & 3/8″ Drive Socket Set

Tool No.	Description
1006	1/4″ Drive Socket, 6 Point, 3/16″
1007	1/4″ Drive Socket, 6 Point, 7/32″
1008	1/4″ Drive Socket, 6 Point, 1/4″
1009	1/4″ Drive Socket, 6 Point, 9/32″
1010	1/4″ Drive Socket, 6 Point, 5/16″
1011	1/4″ Drive Socket, 6 Point, 11/32″
1012	1/4″ Drive Socket, 6 Point, 3/8″
1014	1/4″ Drive Socket, 6 Point, 7/16″
1016	1/4″ Drive Socket, Point, 1/2″
1063	1/4″ Drive Socket Driver
1218	3/8″ Drive Socket, 12 Point, 9/16″
1220	3/8″ Drive Socket, 12 Point, 5/8″
1222	3/8″ Drive Socket, 12 Point, 11/16″
1224	3/8″ Drive Socket, 12 Point, 3/4″
1226	3/8″ Drive Socket, 12 Point, 13/16″
1228	3/8″ Drive Socket, 12 Point, 7/8″
1230	3/8″ Drive Socket, 12 Point, 15/16″
1232	3/8″ Drive Socket, 12 Point, 1″
1326HP	Spark Plug Socket, 13/16″
1253	Adapter, 3/8″ F x 1/4″ M
1260	Reversible Ratchet
1265	Extension, 3″
1266	Extension, 6″
9005	Steel Box

B. **No. 2021.** 19 Pc. 1/4″ & 3/8″ Drive Socket Set

1006	1/4″ Drive Socket, 6 Point, 3/16″
1007	1/4″ Drive Socket, 6 Point, 7/32″
1008	1/4″ Drive Socket, 6 Point, 1/4″
1009	1/4″ Drive Socket, 6 Point, 9/32″
1010	1/4″ Drive Socket, 6 Point, 5/16″
1011	1/4″ Drive Socket, 6 Point, 11/32″
1063	1/4″ Drive Socket Driver
1212H	3/8″ Drive Socket, 6 Point, 3/8″
1214H	3/8″ Drive Socket, 6 Point, 7/16″
1216H	3/8″ Drive Socket, 6 Point, 1/2″
1218H	3/8″ Drive Socket, 6 Point, 9/16″
1220	3/8″ Drive Socket, 12 Point, 5/8″
1222	3/8″ Drive Socket, 12 Point, 11/16″
1224	3/8″ Drive Socket, 12 Point, 3/4″
1326HP	Spark Plug Socket, 13/16″
1253	Adapter, 3/8″ F x 1/4″ M
1260	Reversible Ratchet
1265	Extension, 3″
1266	Extension, 6″
9005	Steel Box

C. **No. 2426.** 26 Pc. 3/8″ Drive General Purpose Set

1212H	Socket, 6 Point, 3/8″
1214H	Socket, 6 Point, 7/16″
1216H	Socket, 6 Point, 1/2″
1218H	Socket, 6 Point, 9/16″
1220	Socket, 12 Point, 5/8″
1222	Socket, 12 Point, 11/16″
1224	Socket, 12 Point, 3/4″
1226	Socket, 12 Point, 13/16″
1228	Socket, 12 Point, 7/8″
1312H	Deep Socket, 6 Point, 3/8″
1314H	Deep Socket, 6 Point, 7/16″
1316H	Deep Socket, 6 Point, 1/2″
1318H	Deep Socket, 6 Point, 9/16″
1320H	Deep Socket, 6 Point, 5/8″
1322H	Deep Socket, 6 Point, 11/16″
1324H	Deep Socket, 6 Point, 3/4″
1326H	Deep Socket, 6 Point, 13/16″
1326HP	Spark Plug Socket, 13/16″
1260	Reversible Ratchet
1265	Extension, 3″
1266	Extension, 6″
3050G	Pliers, Needle Nose
3246G	Pliers, Thin Nose
3366G	Pliers, Diagonal Cutting
4010	Adjustable Wrench, 10″
7500	Magnetic Screwdriver with 4 Bits
9012	Steel Box

D. **No. 6180A.** 18 Pc. All Purpose Tool Kit

3126	Pliers, Slip Joint Combination
3339	Pliers, Water Pump
4008	Adjustable Wrench, 8″
5708	Open End Wrench, 3/16″ x 1/4″
5712	Open End Wrench, 5/16″ x 3/8″
5716	Open End Wrench, 7/16″ x 1/2″
5720	Open End Wrench, 9/16″ x 5/8″
5726	Open End Wrench, 11/16″ x 3/4″
7534	Screwdriver, 1/4″ x 4″
7582	Screwdriver, Phillips #2
9150	9 Pc. Hex Drive Skt. Set
6180AK	Vinyl Roll-Up Kit

E. **No. 9150.** 8 Pc. Hex Drive Socket Set

	Hex Drive Socket, 6 Point, 1/4″
	Hex Drive Socket, 6 Point, 5/16″
	Hex Drive Socket, 6 Point, 11/32″
	Hex Drive Socket, 6 Point, 3/8″
	Hex Drive Socket, 6 Point, 7/16″
	Hex Drive Socket, 4 Point, 1/4″
	Hex Drive Socket, 4 Point, 5/16″
	Hex Drive Handle
	Plastic Pouch

CHALLENGER
23pc. 1/4" & 3/8" Drive Socket Set

A

CHALLENGER
19pc. 1/4" & 3/8" Drive Socket Set

B

CHALLENGER
26 pc. 3/8" Drive General Purpose Set

C

CHALLENGER

D

CHALLENGER

E

METRIC 3/8" DRIVE SOCKET SETS

CHALLENGER
24pc. Metric 3/8" Drive Socket Set

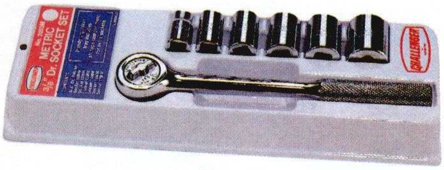
A

CHALLENGER
16pc. Metric 3/8" Drive Socket Set

B

CHALLENGER
10pc. Metric 3/8" Drive Socket Set

C



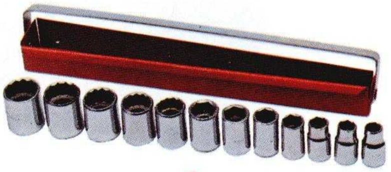
D

CHALLENGER
8pc. Metric 3/8" Drive Deep Socket Set

E

CHALLENGER
5pc. Metric 3/8" Drive Hex Bit Set

F



G

A. **No. 2424M.** Metric 24 Pc. 3/8″ Drive Skt. Set

Tool No.	Description
1207M	Socket, 6 Point, 7mm
1208M	Socket, 6 Point, 8mm
1209M	Socket, 6 Point, 9mm
1210M	Socket, 6 Point, 10mm
1211M	Socket, 6 Point, 11mm
1212M	Socket, 6 Point, 12mm
1213M	Socket, 6 Point, 13mm
1214M	Socket, 6 Point, 14mm
1215MD	Socket, 12 Point, 15mm
1216MD	Socket, 12 Point, 16mm
1217MD	Socket, 12 Point, 17mm
1218MD	Socket, 12 Point, 18mm
1219MD	Socket, 12 Point, 19mm
1310M	Deep Socket, 6 Point, 10mm
1311M	Deep Socket, 6 Point, 11mm
1312M	Deep Socket, 6 Point, 12mm
1313M	Deep Socket, 6 Point, 13mm
1314M	Deep Socket, 6 Point, 14mm
1315M	Deep Socket, 6 Point, 15mm
1317M	Deep Socket, 6 Point, 17mm
1319M	Deep Socket, 6 Point, 19mm
1326HP	Spark Plug Socket, 13/16″
1260	Reversible Ratchet
1265	Extension, 3″
9005	Steel Box

B. **No. 2406MA.** Metric 16 Pc. 3/8″ Drive Skt. Set

1212M	Socket, 6 Point, 12mm
1213M	Socket, 6 Point, 13mm
1214M	Socket, 6 Point, 14mm
1215MD	Socket, 12 Point, 15mm
1216MD	Socket, 12 Point, 16mm
1217MD	Socket, 12 Point, 17mm
1218MD	Socket, 12 Point, 18mm
1219MD	Socket, 12 Point, 19mm
1220MD	Socket, 12 Point, 20mm
1221MD	Socket, 12 Point, 21mm
1222MD	Socket, 12 Point, 22mm
1326HP	Spark Plug Socket, 13/16″
1260	Reversible Ratchet
1265	Extension, 3″
1266	Extension, 6″
1270	Flex Handle
9004	Steel Box

C. **No. 2054MA.** Metric 10 Pc. 3/8″ Drive Skt. Set

1209M	Socket, 6 Point, 9mm
1210M	Socket, 6 Point, 10mm
1212M	Socket, 6 Point, 12mm
1213M	Socket, 6 Point, 13mm
1214M	Socket, 6 Point, 14mm
1217MD	Socket, 12 Point, 17mm
1219MD	Socket, 12 Point, 19mm
1326HP	Spark Plug Socket, 13/16″
1260	Reversible Ratchet
1265	Extension, 3″
9009	Steel Box

D. ★ **No. 2053M.** Metric 7 Pc. 3/8″ Drive Skt. Set

1210M	Socket, 6 Point, 10mm
1212M	Socket, 6 Point, 12mm
1213M	Socket, 6 Point, 13mm
1214M	Socket, 6 Point, 14mm
1215M	Socket, 6 Point, 15mm
1217M	Socket, 6 Point, 17mm
1260	Reversible Ratchet

E. **No. 2408M.** Metric 8 Pc. 3/8″ Dr. Deep Skt. Set

1310M	Deep Socket, 6 Point, 10mm
1311M	Deep Socket, 6 Point, 11mm
1312M	Deep Socket, 6 Point, 12mm
1313M	Deep Socket, 6 Point, 13mm
1314M	Deep Socket, 6 Point, 14mm
1315M	Deep Socket, 6 Point, 15mm
1317M	Deep Socket, 6 Point, 17mm
1319M	Deep Socket, 6 Point, 19mm
9002	Steel Box

F. **No. 1400M.** Metric 5 Pc. 3/8″ Dr. Hex Bit Set

1404M	Hex Bit, 4mm
1405M	Hex Bit, 5 mm
1406M	Hex Bit, 6mm
1408M	Hex Bit, 8mm
1410M	Hex Bit, 10mm
9002	Steel Box

G. **No. 2400MA.** Metric 12 Pc. 3/8″ Drive Skt. Set

1208M	Socket, 6 Point, 8mm
1209M	Socket, 6 Point, 9mm
1210M	Socket, 6 Point, 10mm
1211M	Socket, 6 Point, 11mm
1212M	Socket, 6 Point, 12mm
1213M	Socket, 6 Point, 13mm
1214M	Socket, 6 Point, 14mm
1215MD	Socket, 12 Point, 15mm
1216MD	Socket, 12 Point, 16mm
1217MD	Socket, 12 Point, 17mm
1218MD	Socket, 12 Point, 18mm
1219MD	Socket, 12 Point, 19mm
9030	Steel Tray

★New Item!

METRIC 1/2" DRIVE SOCKET SETS

A. **No. 2516M.** Metric 16 Pc. 1/2" Drive Skt. Set
Contains one each:

Tool No.	Description
1611MD	Socket, 12 Point, 11mm
1612MD	Socket, 12 Point, 12mm
1613MD	Socket, 12 Point, 13mm
1614MD	Socket, 12 Point, 14mm
1617MD	Socket, 12 Point, 17mm
1619MD	Socket, 12 Point, 19mm
1622MD	Socket, 12 Point, 22mm
1623MD	Socket, 12 Point, 23mm
1624MD	Socket, 12 Point, 24mm
1625MD	Socket, 12 Point, 25mm
1626MD	Socket, 12 Point, 26mm
1627MD	Socket, 12 Point, 27mm
1628MD	Socket, 12 Point, 28mm
1660	Reversible Ratchet
1666	Extension, 5"
1670	Flex Handle
9005	Steel Box

CHALLENGER
16pc. Metric 1/2" Drive Socket Set
Ingersoll-Rand

A

B. **No. 2512M.** Metric 12 Pc. 1/2" Drive Skt. Set
Contains one each:

Tool No.	Description
1610MD	Socket, 12 Point, 10mm
1612MD	Socket, 12 Point, 12mm
1613MD	Socket, 12 Point, 13mm
1614MD	Socket, 12 Point, 14mm
1615MD	Socket, 12 Point, 15mm
1616MD	Socket, 12 Point, 16mm
1617MD	Socket, 12 Point, 17mm
1618MD	Socket, 12 Point, 18mm
1619MD	Socket, 12 Point, 19mm
1726HP	Spark Plug Socket, 13/16"
1660	Reversible Ratchet
1666	Extension, 5"
9004	Steel Box

CHALLENGER
12pc. Metric 1/2" Drive Socket Set
Ingersoll-Rand

B

C. **No. 2519M.** Metric 19 Pc. 1/2" Drive Skt. Set
Contains one each:

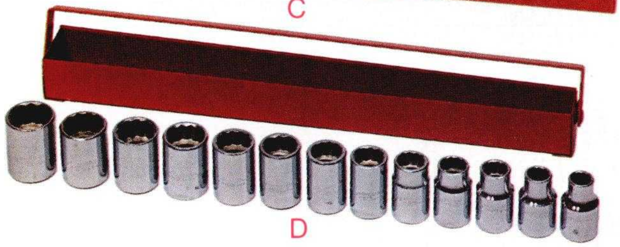
Tool No.	Description
1610MD	Socket, 12 Point, 10mm
1611MD	Socket, 12 Point, 11mm
1612MD	Socket, 12 Point, 12mm
1613MD	Socket, 12 Point, 13mm
1614MD	Socket, 12 Point, 14mm
1615MD	Socket, 12 Point, 15mm
1616MD	Socket, 12 Point, 16mm
1617MD	Socket, 12 Point, 17mm
1618MD	Socket, 12 Point, 18mm
1619MD	Socket, 12 Point, 19mm
1620MD	Socket, 12 Point, 20mm
1621MD	Socket, 12 Point, 21mm
1622MD	Socket, 12 Point, 22mm
1623MD	Socket, 12 Point, 23mm
1624MD	Socket, 12 Point, 24mm
1625MD	Socket, 12 Point, 25mm
1626MD	Socket, 12 Point, 26mm
1627MD	Socket, 12 Point, 27mm
1628MD	Socket, 12 Point, 28mm
9004	Steel Box

CHALLENGER
19pc. Metric 1/2" Drive Socket Set
Ingersoll-Rand

C

D. **No. 2510M.** Metric 13 Pc. 1/2" Drive Skt. Set
Contains one each:

Tool No.	Description
1610MD	Socket, 12 Point, 10mm
1611MD	Socket, 12 Point, 11mm
1612MD	Socket, 12 Point, 12mm
1613MD	Socket, 12 Point, 13mm
1614MD	Socket, 12 Point, 14mm
1615MD	Socket, 12 Point, 15mm
1616MD	Socket, 12 Point, 16mm
1617MD	Socket, 12 Point, 17mm
1618MD	Socket, 12 Point, 18mm
1619MD	Socket, 12 Point, 19mm
1620MD	Socket, 12 Point, 20mm
1621MD	Socket, 12 Point, 21mm
1622MD	Socket, 12 Point, 22mm
9033	Steel Tray



D

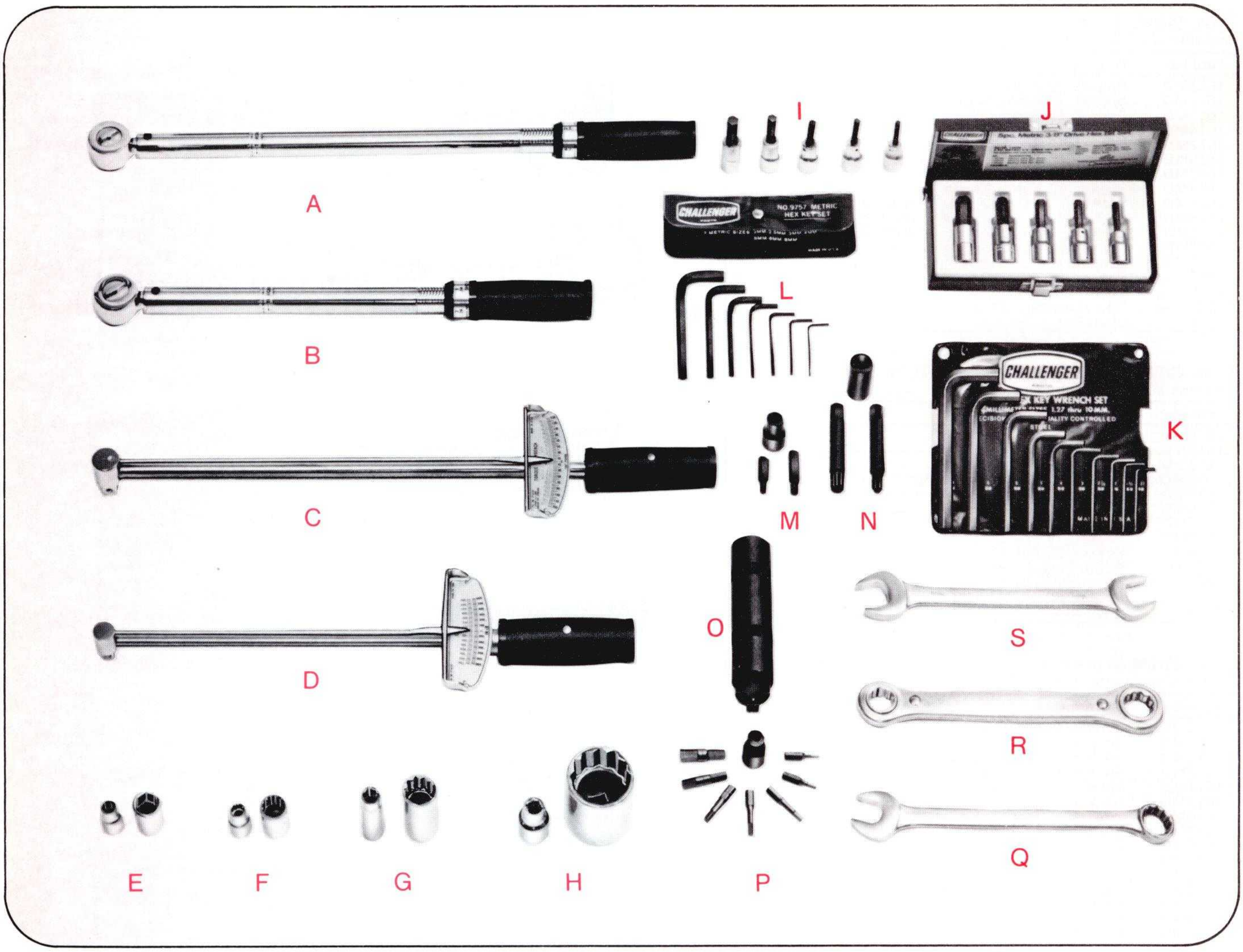
E. **No. 6190M.** Metric 17 Pc. Motorcycle Kit
Contains one each:

Tool No.	Description
570607	Open End Wrench, 6mm x 7mm
570809	Open End Wrench, 8mm x 9mm
571011	Open End Wrench, 10mm x 11mm
571213	Open End Wrench, 12mm x 13mm
571415	Open End Wrench, 14mm x 15mm
9757	7 Piece Hex Key Set (Includes): Hex Key, 2mm Hex Key, 3mm Hex Key, 4mm Hex Key, 5mm Hex Key, 6mm Hex Key, 7mm Hex Key, 8mm Plastic Pouch
0670	Feeler Gauge Set (10 Blades)
1326HP	3/8" Drive Spark Plug Skt., 13/16"
1270	Flex Handle
3126	Pliers, Slip Joint Combination
7582	Screwdriver, Phillips #2 x 4"
6184	Vinyl Roll-Up Kit

CHALLENGER
LEADS the PACK...

E

METRIC SOCKETS, WRENCHES & BITS



A, B. Micrometer Adjustable Torque Wrench

No.	Torque Range English	Torque Range Metric	Drive Size	Head Style	Overall Length
9711	30-250 Ft. Lbs.	4.9-33.9 mkg	1/2″	Ratchet	19-1/2″
9713	10-100 Ft. Lbs.	1.73-13.47 mkg	3/8″	Ratchet	15-1/2″

E. Metric 3/8″ Drive Sockets, 6 Pt.

No.	mm	No.	mm
*1206M	6	*1215M	15
*1207M	7	*1216M	16
*1208M	8	*1217M	17
*1209M	9	*1218M	18
*1210M	10	*1219M	19
*1211M	11	1220M	20
*1212M	12	1221M	21
*1213M	13	1222M	22
*1214M	14		

F. Metric 3/8″ Drive Sockets, 12 Pt.

No.	mm	No.	mm
1208MD	8	1216MD	16
1209MD	9	1217MD	17
1210MD	10	1218MD	18
1211MD	11	1219MD	19
1212MD	12	*1220MD	20
1213MD	13	*1221MD	21
1214MD	14	*1222MD	22
1215MD	15		

G. Metric 3/8″ Dr. Deep Sockets, 6 Pt.

No.	mm	No.	mm
1310M	10	1314M	14
1311M	11	1315M	15
1312M	12	1317M	17
1313M	13	1319M	19

H. Metric 1/2″ Drive Sockets, 12 Pt.

No.	mm	No.	mm
1610MD	10	1621MD	21
1611MD	11	1622MD	22
1612MD	12	1623MD	23
1613MD	13	1624MD	24
1614MD	14	1625MD	25
1615MD	15	1626MD	26
1616MD	16	1627MD	27
1617MD	17	1628MD	28
1618MD	18	1630MD	30
1619MD	19	1632MD	32
1620MD	20	1636MD	36

I. Metric 3/8″ Drive Hex Bits

1404M	4	1408M	8
1405M	5	1410M	10
1406M	6		

J. **No. 1400M.** Metric 5 Pc. 3/8″ Drive Hex Bit Set

Contains one each:

1404M	4	1408M	8
1405M	5	1410M	10
1406M	6	9002	Box

K. **No. 9758.** Metric 10 Pc. Hex Set

Contains one each hex bit size:

mm	mm
1.27	4
1.5	5
2	6
2.5	8
3	10

C, D. Deflecting Beam Torque Wrench

No.	Torque Range English	Torque Range Metric	Drive Size	Head Style	Overall Length
*9709	0-150 Ft. Lbs.	0-20 mkg	1/2″	Fixed	19″
*9710	0-600 In. Lbs.	0-700 cmkg	3/8″	Fixed	16″

L. **No. 9757.** Metric 7 Pc. Hex Set

mm	mm
2	6
3	7
4	8
5	Pouch

M. **No. C1296.** Metric 3 Pc. 3/8″ Dr. 12 Pt. Bit Set (Carded)

No.	Description
†1296A	12 Point Bit, 6mm
†1296B	12 Point Bit, 8mm
†1296S	Bit Holder

†May be purchased separately.

N. **No. C1297.** Metric 3 Pc. 3/8″ Dr. 12 Pt. Bit Set (Carded)

†1297A	12 Point Bit, 10mm
†1297B	12 Point Bit, 12mm
†1297S	Bit Holder

†May be purchased separately.

O. **No. 1299.** Hand Impact Driver 3/8″ Drive

P. **No. 9759M.** Metric 8 Pc. 3/8″ Dr. Hex Bit Set

mm	mm
2	6
3	8
4	10
5	Bit Holder

Q. Metric Comb. Wrenches, 12 Pt.

No.	mm	No.	mm
*6106M	6	*6115M	15
*6107M	7	*6116M	16
*6108M	8	*6117M	17
*6109M	9	*6118M	18
*6110M	10	*6119M	19
*6111M	11	*6120M	20
*6112M	12	*6121M	21
*6113M	13	*6122M	22
*6114M	14		

R. Metric Ratcheting Box Wrenches

No.	mm	No.	mm
†6892MD	9x10	†6894MD	13x14
†6893MD	11x12	6895MD	15x17

†6 Point.

S. Metric Open End Wrenches

No.	mm	No.	mm
570607	6x7	571617	16x17
570809	8x9	571819	18x19
571011	10x11	572022	20x22
571213	12x13	572123	21x23
571415	14x15	572426	24x26

*Available carded. Add "C" prefix to Tool No. when ordering.

METRIC WRENCH SETS

A

CHALLENGER
PROTO
SET NO. 6101 M

F

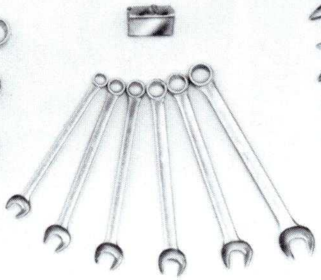
CHALLENGER
PROTO

CHALLENGER
PROTO
SET NO. 6100 M
METRIC SIZES
FOR IMPORTED CARS, CYCLES, MOTORS AND MACHINERY
9MM
10MM
11MM
12MM
14MM
17MM
19MM

B

CHALLENGER
PROTO

C



D

CHALLENGER
PROTO

E

Challenger metric flat wrenches are hot forged from special alloy steel and scientifically heat treated in atmospherically controlled furnaces. This results in wrenches that are slim and lightweight yet possess exceptional strength and toughness without unnecessary weight and bulk. Wrenches have 15 degree angle open ends and offset box ends for knuckle and obstruction clearance and have professional look and feel. Durable nickel chrome plate adds beauty and protection.

A. **No. 6101M.** Metric 17 Pc. Comb. Wrench Set

Contains one each:

No.	Size
6106M	6mm
6107M	7mm
6108M	8mm
6109M	9mm
6110M	10mm
6111M	11mm
6112M	12mm
6113M	13mm
6114M	14mm
6115M	15mm
6116M	16mm
6117M	17mm
6118M	18mm
6119M	19mm
6120M	20mm
6121M	21mm
6122M	22mm
6157	Vinyl Roll-Up Kit

B. **No. 6100M.** Metric 7 Pc. Comb. Wrench Set

Contains one each:

No.	Size
6109M	9mm
6110M	10mm
6111M	11mm
6112M	12mm
6114M	14mm
6117M	17mm
6119M	19mm
6101	Vinyl Roll-Up Kit

C. **No. 6100MP.** Metric 7 Pc. Comb. Wrench Set

Contains one each:

No.	Size
6109M	9mm
6110M	10mm
6111M	11mm
6112M	12mm
6114M	14mm
6117M	17mm
6119M	19mm
P07	Vinyl Pouch

D. ***No. 6103M.** Metric 6 Pc. Comb. Wrench Set

Contains one each:

No.	Size
6109M	9mm
6110M	10mm
6111M	11mm
6112M	12mm
6113M	13mm
6114M	14mm
ST516	Steel Wrench Clip

E. **No. 5710MP.** Metric 10 Pc. Open End Wrench Set

Contains one each:

No.	Size
570607	6mm x 7mm
570809	8mm x 9mm
571011	10mm x 11mm
571213	12mm x 13mm
571415	14mm x 15mm
571617	16mm x 17mm
571819	18mm x 19mm
572022	20mm x 22mm
572123	21mm x 23mm
572426	24mm x 26mm
P010	Vinyl Pouch

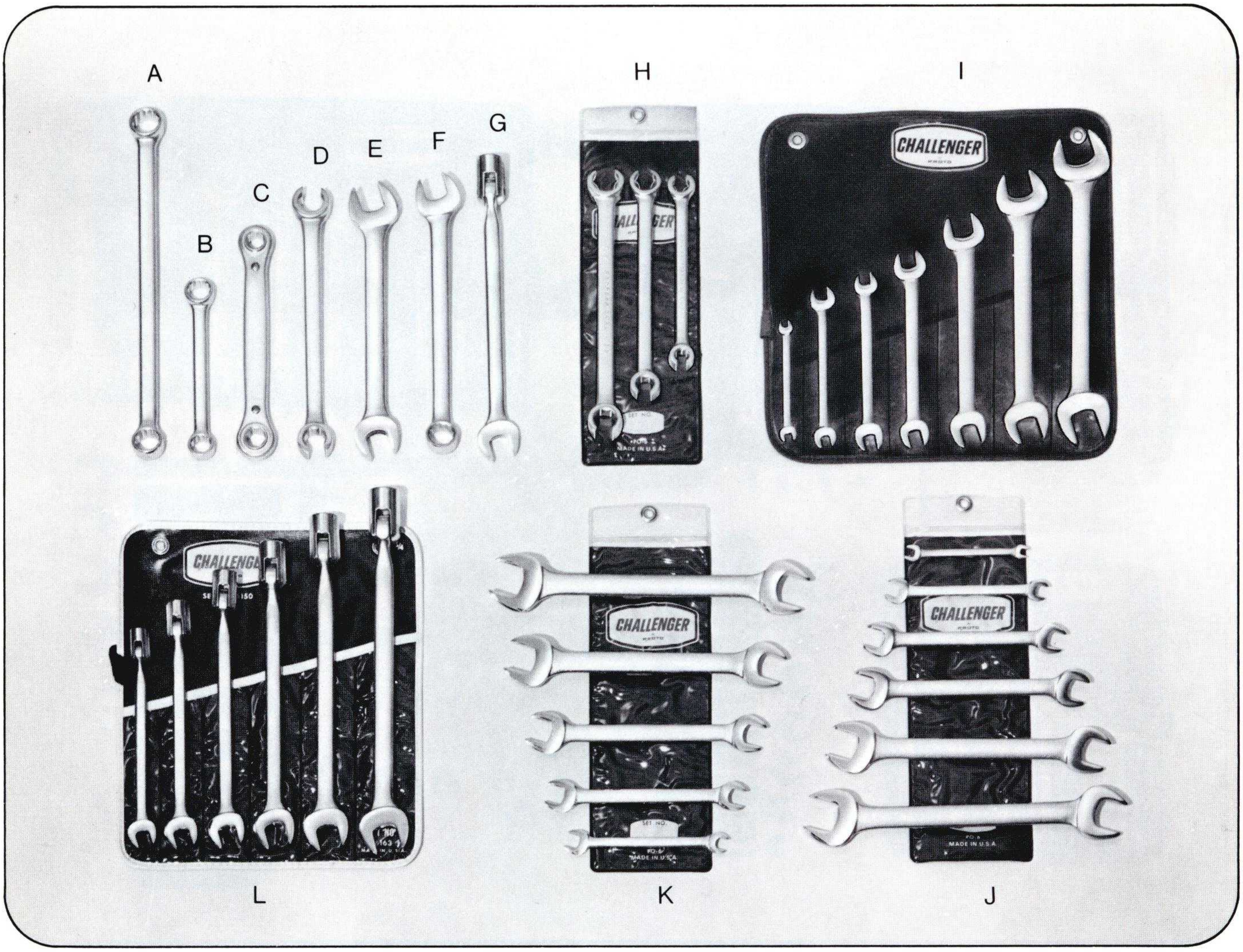
F. **No. 5710M.** Metric 10 Pc. Open End Wrench Set

Contains one each:

No.	Size
570607	6mm x 7mm
570809	8mm x 9mm
571011	10mm x 11mm
571213	12mm x 13mm
571415	14mm x 15mm
571617	16mm x 17mm
571819	18mm x 19mm
572022	20mm x 22mm
572123	21mm x 23mm
572426	24mm x 26mm
6159	Vinyl Roll-Up Kit

*Available carded. Add "C" prefix to Tool No. when ordering.

FLAT WRENCHES & SETS



A. Box Wrenches, 12 Point

Tool No.	Size	Overall Length
*6414	3/8" x 7/16"	7-1/4"
*6418	1/2" x 9/16"	8-1/4"
*6420	9/16" x 5/8"	9-1/2"
6422	5/8" x 11/16"	10-1/4"
*6424	11/16" x 3/4"	11"
6428	13/16" x 7/8"	12-1/2"
6432	15/16" x 1"	14-1/4"

B. Short Box Wrenches, 12 Point

6414S	3/8" x 7/16"	4-5/8"
6418S	1/2" x 9/16"	5-3/8"
6422S	5/8" x 3/4"	6-1/8"

C. Ratcheting Box Wrenches

†6810D	1/4" x 5/16"	4-7/8"
†6814D	3/8" x 7/16"	6-1/4"
†6818D	1/2" x 9/16"	7-5/8"
6822D	5/8" x 11/16"	8-7/8"
6828D	3/4" x 7/8"	10"

†6 Point

D. Double End Flare Nut Wrenches, 6 Point

7064	3/8" x 7/16"	6-1/4"
7068	1/2" x 9/16"	7-1/2"
7072	5/8" x 11/16"	8-3/4"

E. Open End Wrenches

5708	3/16" x 1/4"	3-7/8"
*5712	5/16" x 3/8"	5-1/8"
*5714	3/8" x 7/16"	5-3/4"
5716	7/16" x 1/2"	6-3/8"
*5718	1/2" x 9/16"	7"
5720	9/16" x 5/8"	7-5/8"
*5726	11/16" x 3/4"	8-7/8"
5728	13/16" x 7/8"	10-1/4"
5732	15/16" x 1"	11-3/8"

F. Combination Wrenches, 12 Point

Tool No.	Size	Overall Length
*6108	1/4"	5"
*6110	5/16"	5-1/2"
*6112	3/8"	6"
*6114	7/16"	6-1/2"
*6116	1/2"	7"
*6118	9/16"	7-1/2"
*6120	5/8"	8"
*6122	11/16"	8-7/8"
*6124	3/4"	9-3/4"
*6126	13/16"	10-5/8"
*6128	7/8"	11-1/2"
*6130	15/16"	12-3/8"
*6132	1"	13-1/4"
6134	1-1/16"	14-1/8"
6136	1-1/8"	15-3/8"
6140	1-1/4"	16-3/4"
6142	1-5/16"	17-5/8"
6144	1-3/8"	18-1/2"
6146	1-7/16"	19-3/8"
6148	1-1/2"	20-1/4"

G. Flex Head Combination Wrenches

†6312H	3/8"	6"
†6314H	7/16"	6-3/4"
6316	1/2"	7-1/2"
6318	9/16"	8-1/2"
6320	5/8"	9-1/2"
6322	11/16"	10"
6324	3/4"	11"
6326	13/16"	12"
6328	7/8"	12-3/4"

†6 Point

H. **No. 7060.** 3 Piece Flare Nut Wrench Set

Tool No.	Size
7064	3/8" x 7/16"
7068	1/2" x 9/16"
7072	5/8" x 11/16"
P06	Vinyl Pouch

I. **No. 5705.** 7 Piece Open End Wrench Set

Contains one each:

Tool No.	Size
5708	3/16" x 1/4"
5712	5/16" x 3/8"
5716	7/16" x 1/2"
5720	9/16" x 5/8"
5726	11/16" x 3/4"
5728	13/16" x 7/8"
5732	15/16" x 1"
5705K	Vinyl Roll-Up Kit

J. **No. 5701P.** 6 Piece Open End Wrench Set

Contains one each:

5708	3/16" x 1/4"
5712	5/16" x 3/8"
5716	7/16" x 1/2"
5720	9/16" x 5/8"
5726	11/16" x 3/4"
5728	13"16" x 7/8"
P06	Vinyl Pouch

K. **No. 5703P.** 5 Piece Open End Wrench Set

Contains one each:

5712	5/16" x 3/8"
5716	7/16" x 1/2"
5720	9/16" x 5/8"
5726	11/16" x 3/4"
5728	13"16" x 7/8"
P06	Vinyl Pouch

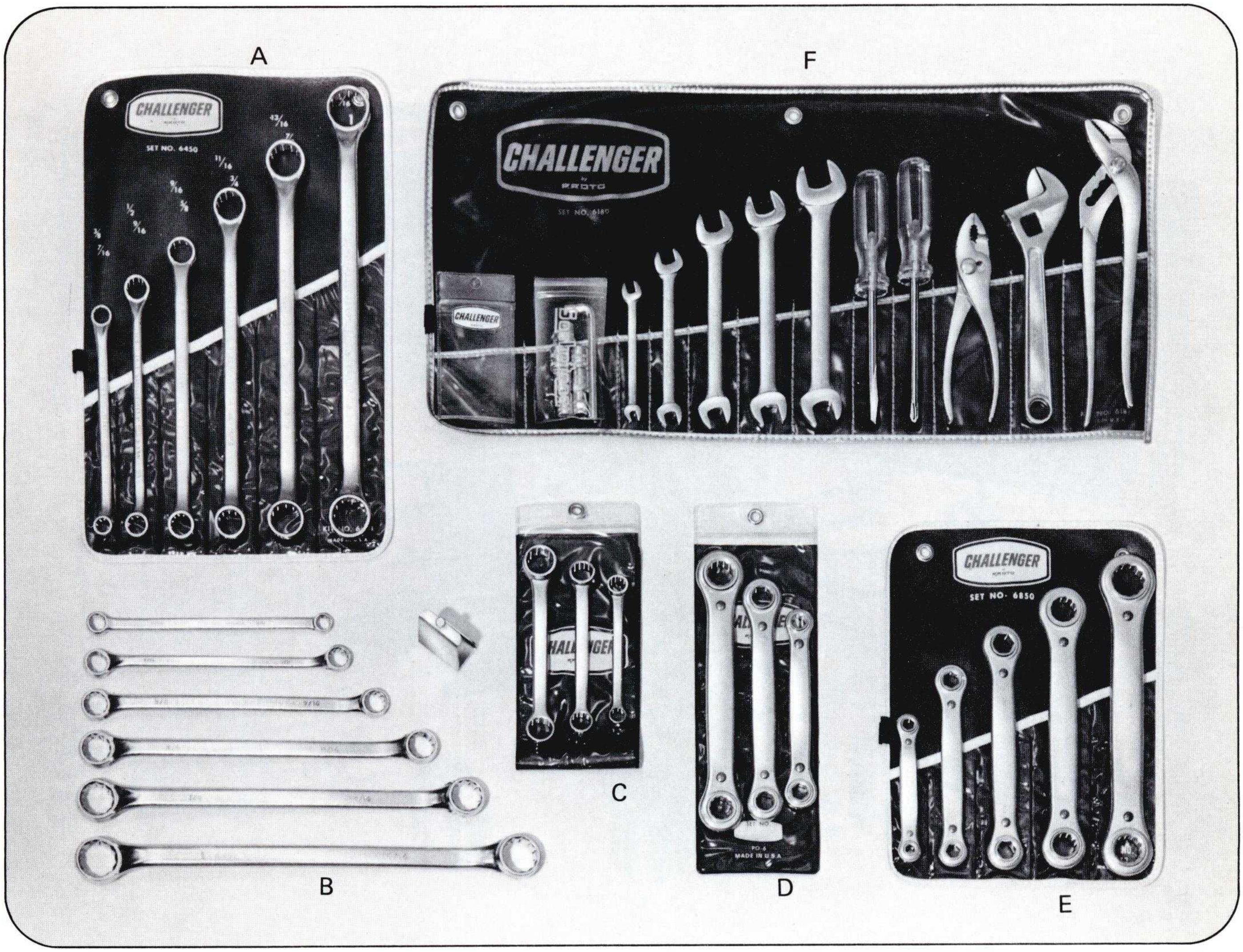
L. **No. 6301.** 6 Pc. Flex Head Combination Wrench Set

Contains one each:

6314H	7/16"
6316	1/2"
6318	9/16"
6320	5/8"
6322	11/16"
6324	3/4"
6301K	Vinyl Roll-Up Kit

*Available carded. Add "C" prefix to Tool No. when ordering.

BOX WRENCH & UTILITY SETS



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A. No. 6450. 6 Piece Box Wrench Set

Contains one each:

Tool No.	Size
6414	3/8″ x 7/16″
6418	1/2″ x 9/16″
6420	9/16″ x 5/8″
6424	11/16″ x 3/4″
6428	13/16″ x 7/8″
6432	15/16″ x 1″
6461	Vinyl Roll-Up Kit

B. No. 6406. 6 Piece Box Wrench Set

Contains one each:

Tool No.	Size
6414	3/8″ x 7/16″
6418	1/2″ x 9/16″
6420	9/16″ x 5/8″
6424	11/16″ x 3/4″
6428	13/16″ x 7/8″
6432	15/16″ x 1″
ST616	Steel Wrench Clip

C. No. 6400S. 3 Piece Short Box Wrench Set

Contains one each:

Tool No.	Size
6414S	3/8″ x 7/16″
6418S	1/2″ x 9/16″
6422S	5/8″ x 3/4″
P03	Vinyl Pouch

D. No. 6840D. 3 Pc. Ratcheting Box Wrench Set

Contains one each:

Tool No.	Size
6814D	3/8″ x 7/16″
6818D	1/2″ x 9/16″
6822D	5/8″ x 11/16″
6840AK	Vinyl Pouch

E. No. 6850D. 5 Pc. Ratcheting Box Wrench Set

Contains one each:

Tool No.	Size
6810D	1/4″ x 5/16″
6814D	3/8″ x 7/16″
6818D	1/2″ x 9/16″
6822D	5/8″ x 11/16″
6828D	3/4″ x 7/8″
6850AK	Vinyl Roll-Up Kit

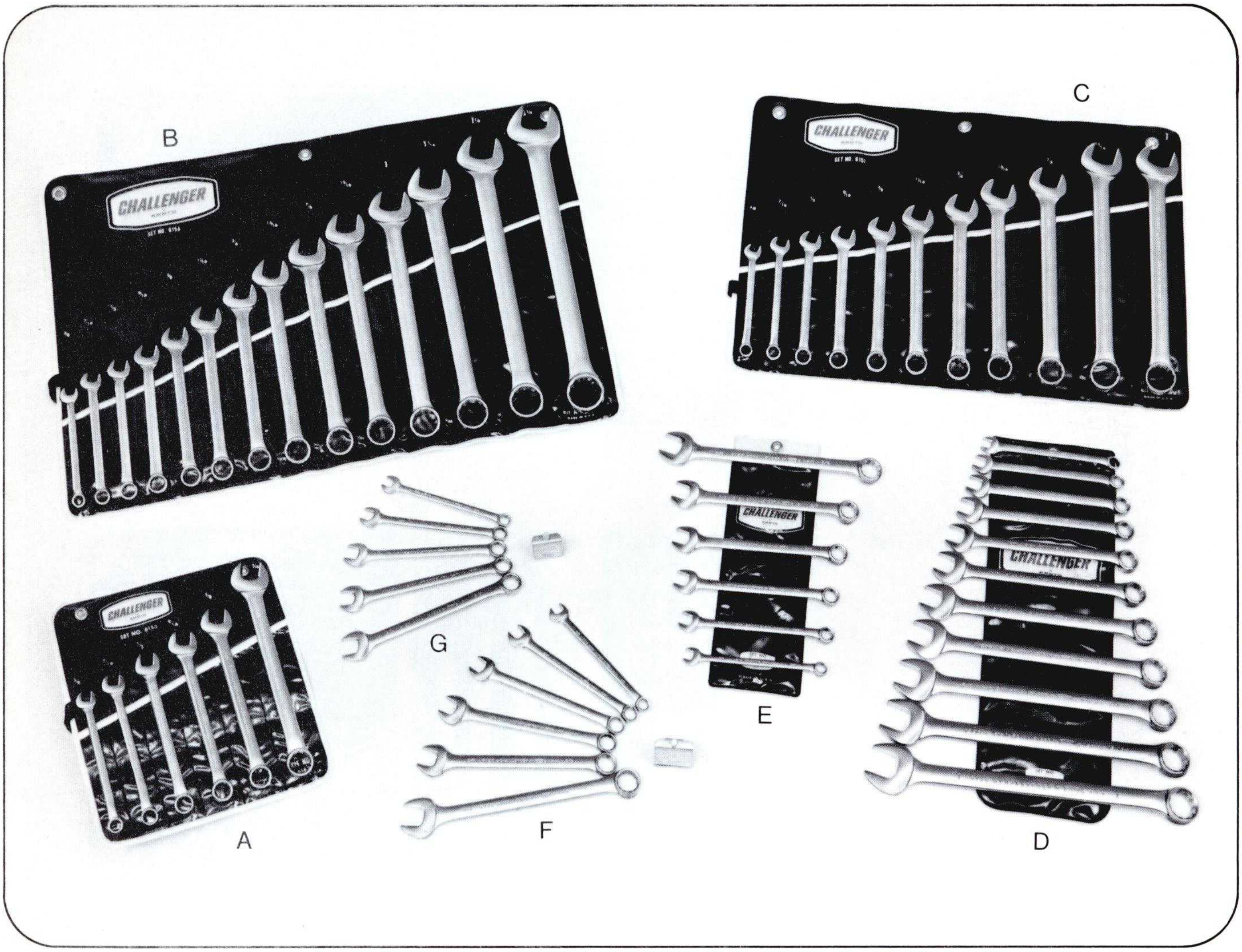
CHALLENGER by PROTO

F. No. 6180A. 21 Piece All Purpose Tool Kit

Contains one each:

Tool No.	Description
3126	Pliers, Slip Joint Combination
3339	Pliers, Water Pump
4008	Adjustable Wrench, 8″
5708	Open End Wrench, 3/16″ x 1/4″
5712	Open End Wrench, 5/16″ x 3/8″
5716	Open End Wrench, 7/16″ x 1/2″
5720	Open End Wrench, 9/16″ x 5/8″
5726	Open End Wrench, 11/16″ x 3/4″
7534	Screwdriver, 1/4″ x 4″
7582	Screwdriver, Phillips #2
9150	9 Pc. Hex Drive Skt. Set (Includes): Socket, 6 Point, 1/4″ Socket, 6 Point, 5/16″ Socket, 6 Point, 11/32″ Socket, 6 Point, 3/8″ Socket, 6 Point, 7/16″ Socket, 4 Point, 1/4″ Socket, 4 Point, 5/16″ Hex Socket Driver Plastic Pouch
6180AK	Vinyl Roll-Up Kit

COMBINATION WRENCH SETS



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A. No. 6150. 6 Pc. Combination Wrench Set

Contains one each:

Tool No.	Size
6112	3/8″
6114	7/16″
6116	1/2″
6118	9/16″
6120	5/8″
6124	3/4″
6163	Vinyl Roll-Up Kit

B. No. 6154. 14 Pc. Combination Wrench Set

Contains one each:

Tool No.	Size
6112	3/8″
6114	7/16″
6116	1/2″
6118	9/16″
6120	5/8″
6122	11/16″
6124	3/4″
6126	13/16″
6128	7/8″
6130	15/16″
6132	1″
6134	1-1/16″
6136	1-1/8″
6140	1-1/4″
6161	Vinyl Roll-Up Kit

C. No. 6151. 11 Pc. Combination Wrench Set

Contains one each:

Tool No.	Size
6112	3/8″
6114	7/16″
6116	1/2″
6118	9/16″
6120	5/8″
6122	11/16″
6124	3/4″
6126	13/16″
6128	7/8″
6130	15/16″
6132	1″
6162	Vinyl Roll-Up Kit

D. No. 6155. 11 Pc. Combination Wrench Set

Contains one each:

Tool No.	Size
6112	3/8″
6114	7/16″
6116	1/2″
6118	9/16″
6120	5/8″
6122	11/16″
6124	3/4″
6126	13/16″
6128	7/8″
6130	15/16″
6132	1″
P010	Vinyl Pouch

E. No. 6104. 6 Pc. Combination Wrench Set

Contains one each:

Tool No.	Size
6112	3/8″
6114	7/16″
6116	1/2″
6118	9/16″
6120	5/8″
6124	3/4″
P06	Vinyl Pouch

F. *No. 6106. 6 Pc. Combination Wrench Set

Contains one each:

Tool No.	Size
6112	3/8″
6114	7/16″
6116	1/2″
6118	9/16″
6120	5/8″
6124	3/4″
ST616	Steel Wrench Clip

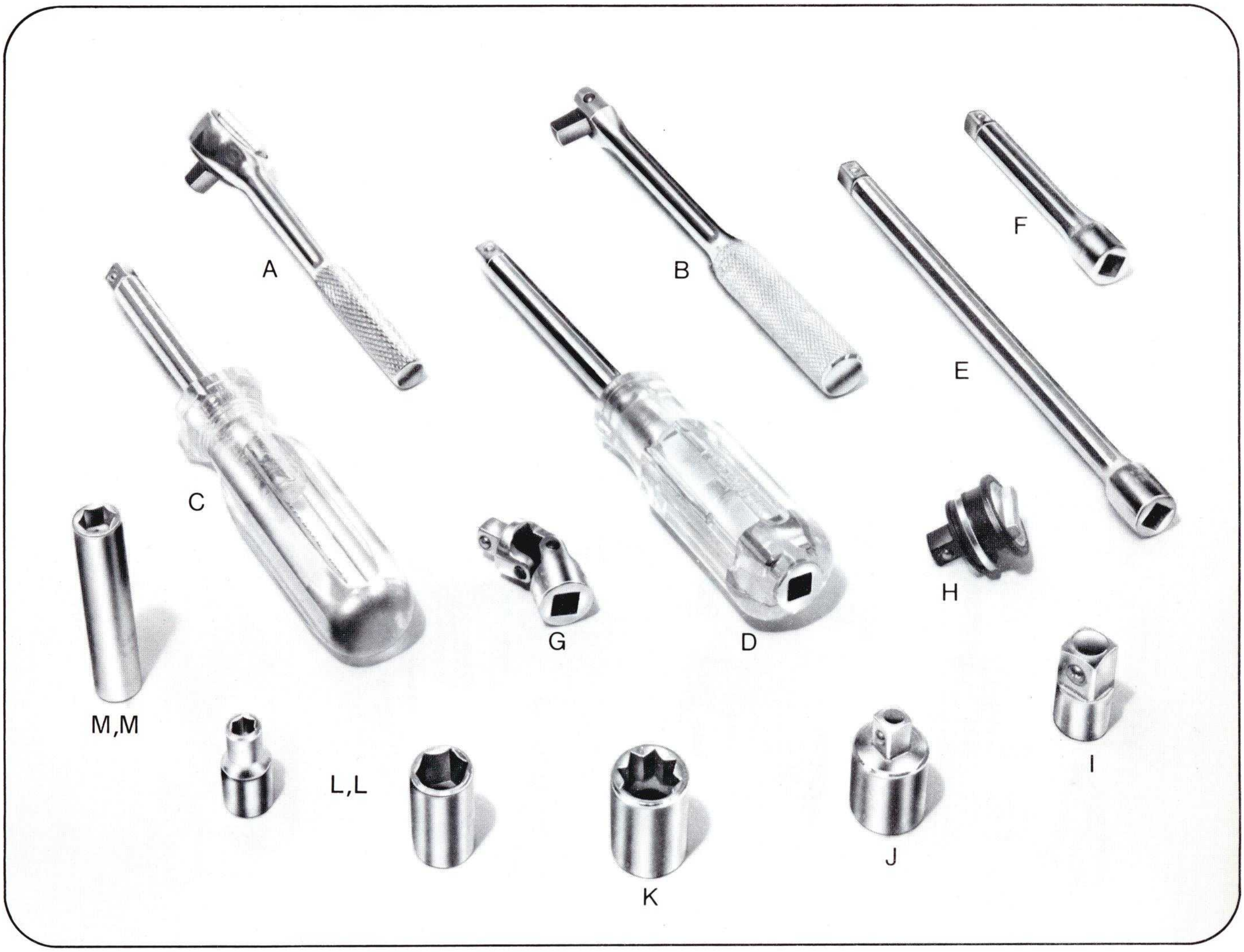
G. *No. 6105. 5 Pc. Combination Wrench Set

Contains one each:

Tool No.	Size
6112	3/8″
6114	7/16″
6116	1/2″
6118	9/16″
6120	5/8″
ST516	Steel Wrench Clip

*Available carded. Add "C" prefix to Tool No. when ordering.

1/4" DRIVE SOCKETS & ATTACHMENTS



Challenger 1/4" drive midget socket wrenches are designed for service work, repair, maintenance and assembly where small sockets, handles and attachments are a necessity. Special alloy steel and scientific heat treating permit thin wall socket design for more effective use in confined spaces. Nickel chrome plate provides hard, lustrous finish.

A. Small Head Reversible Ratchet

Tool No.	Overall Length	Repair Kit No.
1060	4-3/4"	1060RK

B. Flex Handle

Tool No.	Overall Length
1070	5-3/4"

C. Socket Driver

Tool No.	Overall Length
1063	6-1/2"

D. Socket Driver with 1/4" Female Square in Handle

Female square drive in handle end accepts all male 1/4" drive handles and attachments.

Tool No.	Overall Length
1069	6-1/8"

E. Extension

Tool No.	Overall Length
1066	6"

F. Extension

Tool No.	Overall Length
1065	3"

G. Universal Joint

Tool No.	Overall Length
1080	1-5/16"

H. Ratchet Repair Assembly

Tool No.	Drive Size	For Ratchet No.
1060RK	1/4"	1060

I. Adapter

Tool No.	Size	Overall Length
1279	1/4" F x 3/8" M	1"

J. Adapter

Tool No.	Size	Overall Length
1253	3/8" F x 1/4" M	1"

K. Standard Length Sockets, 8 Point

Tool No.	Size	Overall Length
1008S	1/4"	7/8"
1010S	5/16"	7/8"
1012S	3/8"	7/8"

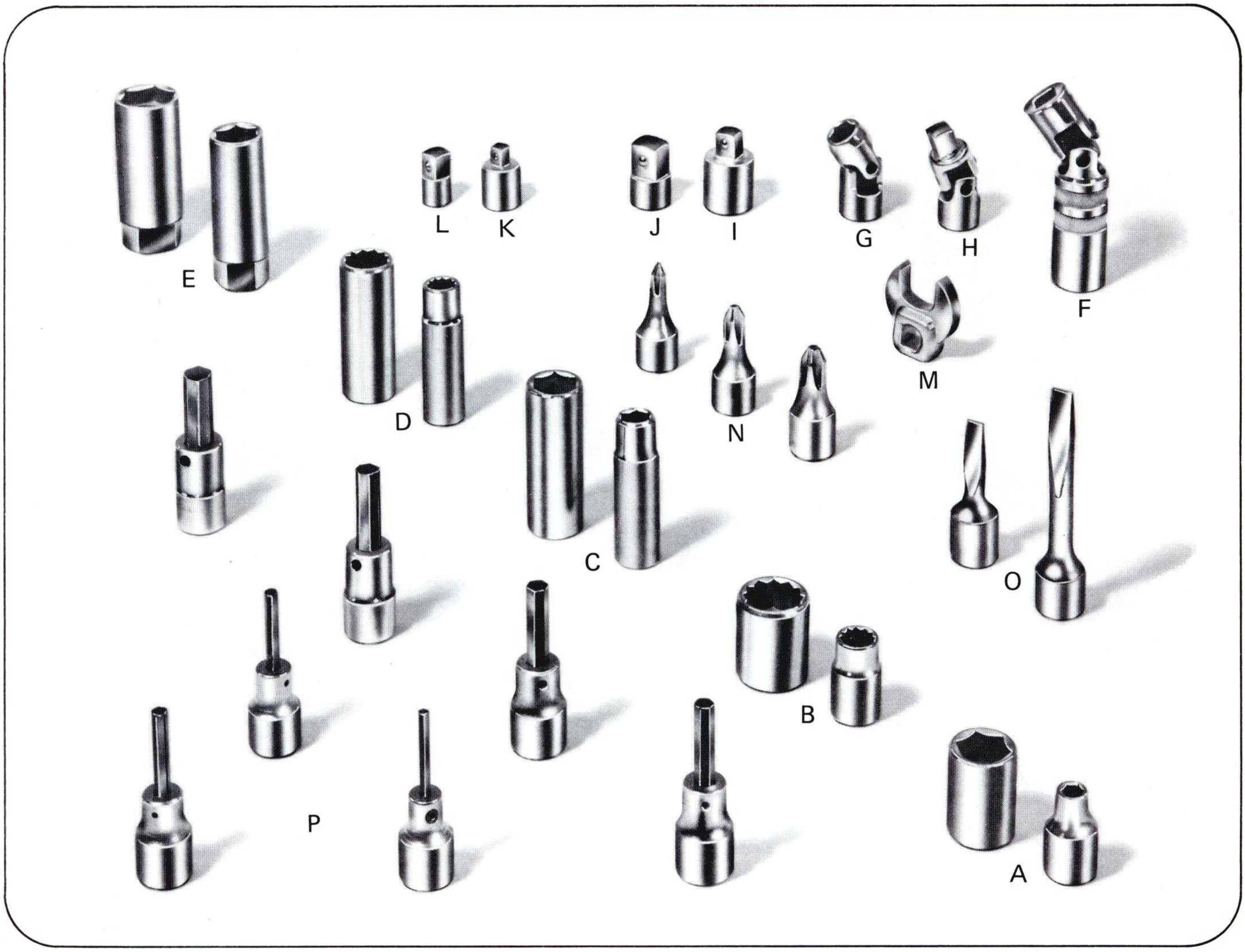
L. Standard Length Sockets, 6 Point

Tool No.	Size	Overall Length
1006	3/16"	7/8"
1007	7/32"	7/8"
1008	1/4"	7/8"
1009	9/32"	7/8"
1010	5/16"	7/8"
1011	11/32"	7/8"
1012	3/8"	7/8"
1014	7/16"	7/8"
1016	1/2"	7/8"

M. Deep Length Sockets, 6 Point

Tool No.	Size	Overall Length
1108	1/4"	2"
1109	9/32"	2"
1110	5/16"	2"
1111	11/32"	2"
1112	3/8"	2"
1114	7/16"	2"
1116	1/2"	2"

3/8″ DRIVE SOCKETS & ATTACHMENTS



A. Standard Length Sockets, 6 Point

Tool No.	Size	Overall Length
1212H	3/8″	1-1/16″
1214H	7/16″	1-1/16″
1216H	1/2″	1-1/8″
1218H	9/16″	1-1/8″
1220H	5/8″	1-1/8″
1222H	11/16″	1-1/8″
1224H	3/4″	1-3/16″

B. Standard Length Sockets, 12 Point

*1212	3/8″	1-1/16″
*1214	7/16″	1-1/16″
*1216	1/2″	1-1/8″
*1218	9/16″	1-1/8″
*1220	5/8″	1-1/8″
*1222	11/16″	1-1/8″
*1224	3/4″	1-3/16″
*1226	13/16″	1-3/16″
*1228	7/8″	1-3/16″
1230	15/16″	1-3/16″
1232	1″	1-3/16″

C. Deep Length Sockets, 6 Point

1312H	3/8″	2-1/8″
*1314H	7/16″	2-1/8″
*1316H	1/2″	2-1/8″
*1318H	9/16″	2-1/8″
*1320H	5/8″	2-1/8″
*1322H	11/16″	2-1/4″
*1324H	3/4″	2-1/4″
*1326H	13/16″	2-1/2″
1328H	7/8″	2-1/2″

D. Deep Length Sockets, 12 Point

1312	3/8″	2-1/8″
1314	7/16″	2-1/8″
1316	1/2″	2-1/8″
1318	9/16″	2-1/8″
1320	5/8″	2-1/8″
1322	11/16″	2-1/4″
1324	3/4″	2-1/4″
1326	13/16″	2-1/2″
1328	7/8″	2-1/2″

E. Deep Length Spark Plug Sockets, 6 Point

Tool No.	Size	Overall Length	Replacement Rubber Insert
*1320HP	5/8″	2-1/2″	5021-51
*1326HP	13/16″	2-1/2″	5026RA

F. Universal Spark Plug Sockets, 6 Point

1320-70	5/8″	3-1/8″	5021-51
1326-70	13/16″	3-1/8″	5026RA

G. Universal Sockets, 6 Point

Tool No.	Size	Overall Length
1281H	3/8″	1-5/8″
1282H	7/16″	1-5/8″
1283H	1/2″	1-3/4″
1284H	9/16″	1-7/8″
1285H	5/8″	2″
1286H	11/16″	2-1/8″
1287H	3/4″	2-1/4″

H. Universal Joint

Tool No.	Drive Size	Overall Length
*1280	3/8″	1-7/8″

I. Adapter

Tool No.	Size	Overall Length
*1254	1/2″F x 3/8″M	1-3/8″

J. Adapter

1654	3/8″F x 1/2″M	1-1/8″

K. Adapter

*1253	3/8″F x 1/4″M	1″

L. Adapter

Tool No.	Size	Overall Length
1279	1/4″F x 3/8″M	1″

M. Crow Foot Wrenches

1412	3/8″	1-1/8″
1414	7/16″	1-1/8″
1416	1/2″	1-1/8″
1418	9/16″	1-3/8″
1420	5/8″	1-3/8″
1422	11/16″	1-3/8″
1424	3/4″	1-5/8″

N. Phillips Screwdriver Bits

1241	Phillips #2	1-5/8″
1242	Phillips #3	1-5/8″
1243	Phillips #4	1-5/8″

O. Standard Screwdriver Bits

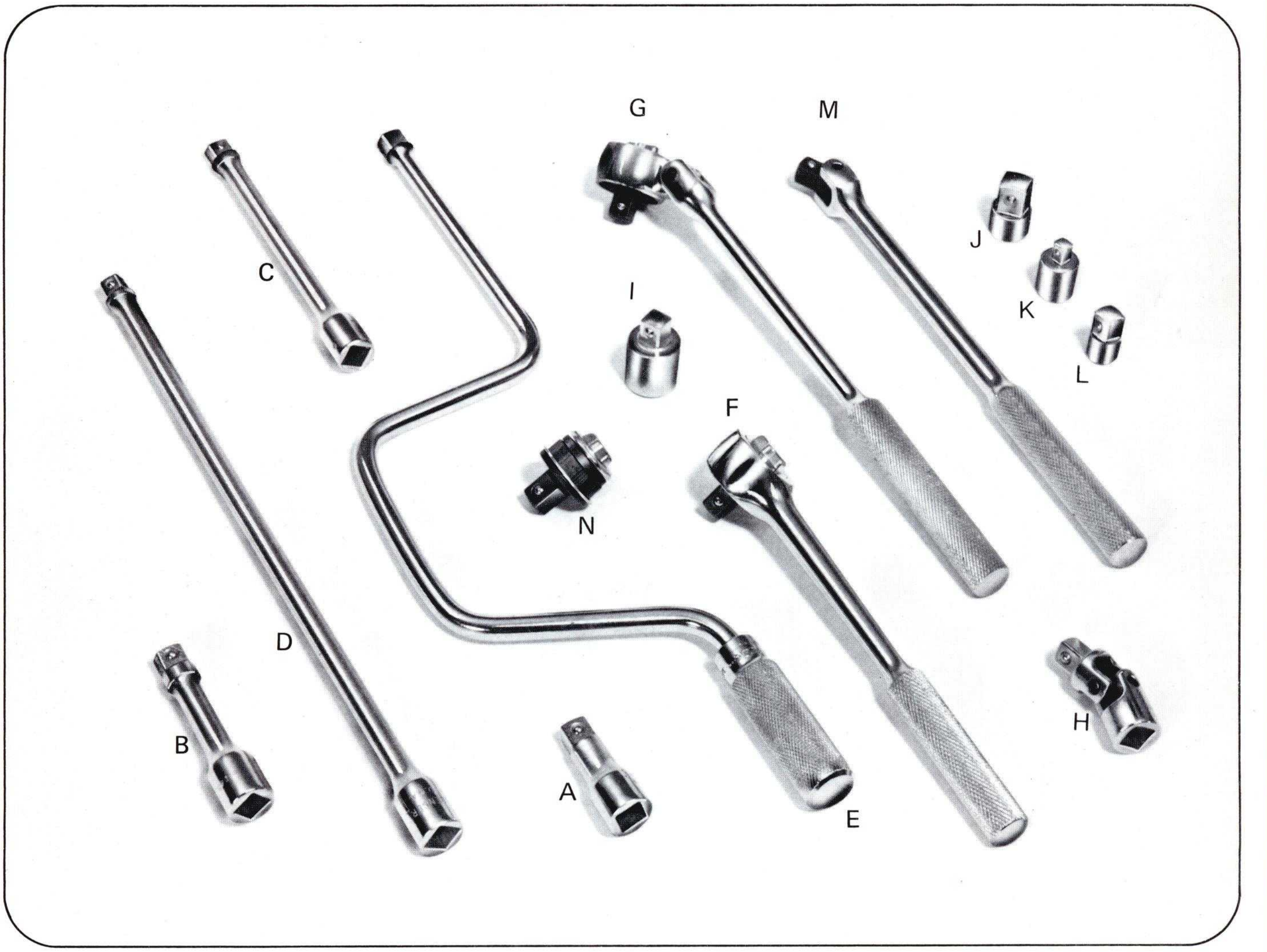
1246	1/4″ x .030″	2″
1240	5/16″ x .040″	3-1/4″

P. Hex Bits

Tool No.	Size	Overall Length	Replacement Bit No.
1490 1/8	1/8″	2-1/16″	4980RK
1490 5/32	5/32″	2-1/16″	4981RK
1490 3/16	3/16″	2-1/16″	4982RK
1490 7/32	7/32″	2-1/8″	4984RK
1490 1/4	1/4″	2-1/8″	4985RK
1490 5/16	5/16″	2-1/4″	4987RK
1490 3/8	3/8″	2-1/4″	4988RK

*Available carded. Add "C" prefix to Tool No. when ordering.

3/8" DRIVE SOCKETS & ATTACHMENTS



Challenger ratchets have the strongest, smoothest action in the industry. They exceed government strength specifications by 50% and feature a compact ratchet head that is 16% smaller than conventional round head ratchets. Precision 60 teeth action requires only 6 degree arc to obtain new "bite". Knurled handle provides comfortable, non-slip grip. Beautiful nickel chrome plate protects highly polished ratchet body.

Challenger 3/8" drive socket wrenches are forged from alloy steel and heat treated to exacting specifications to obtain maximum wall strength and toughness. This strength permits thin wall design for easier access and greater clearance when working in confined spaces. Nickel chrome plate provides beautiful lasting finish.

A. Extension

Tool No.	Overall Length
1264	1-3/4"

B. Extension

Tool No.	Overall Length
*1265	3"

C. Extension

Tool No.	Overall Length
*1266	6"

D. Extension

Tool No.	Overall Length
1268	12"

E. Speed Handle

Tool No.	Overall Length
1275	15-1/4"

F. Reversible Ratchet

Tool No.	Overall Length	No. of Teeth	Repair Kit No.
*1260	7-1/2"	60	1260RK

G. Flex Head Reversible Ratchet, 3 Position

Tool No.	Overall Length	No. of Teeth	Repair Kit No.
1262	11"	60	1260RK

H. Universal Joint

Tool No.	Drive Size	Overall Length
*1280	3/8	1-7/8"

I. Adapter

Tool No.	Size	Overall Length
*1254	1/2"F x 3/8"M	1-3/8"

J. Adapter

Tool No.	Size	Overall Length
1654	3/8"F x 1/2"M	1-1/8"

K. Adapter

Tool No.	Size	Overall Length
*1253	3/8"F x 1/4"M	1"

L. Adapter

Tool No.	Size	Overall Length
1279	1/4"F x 3/8"M	1"

M. Flex Handle

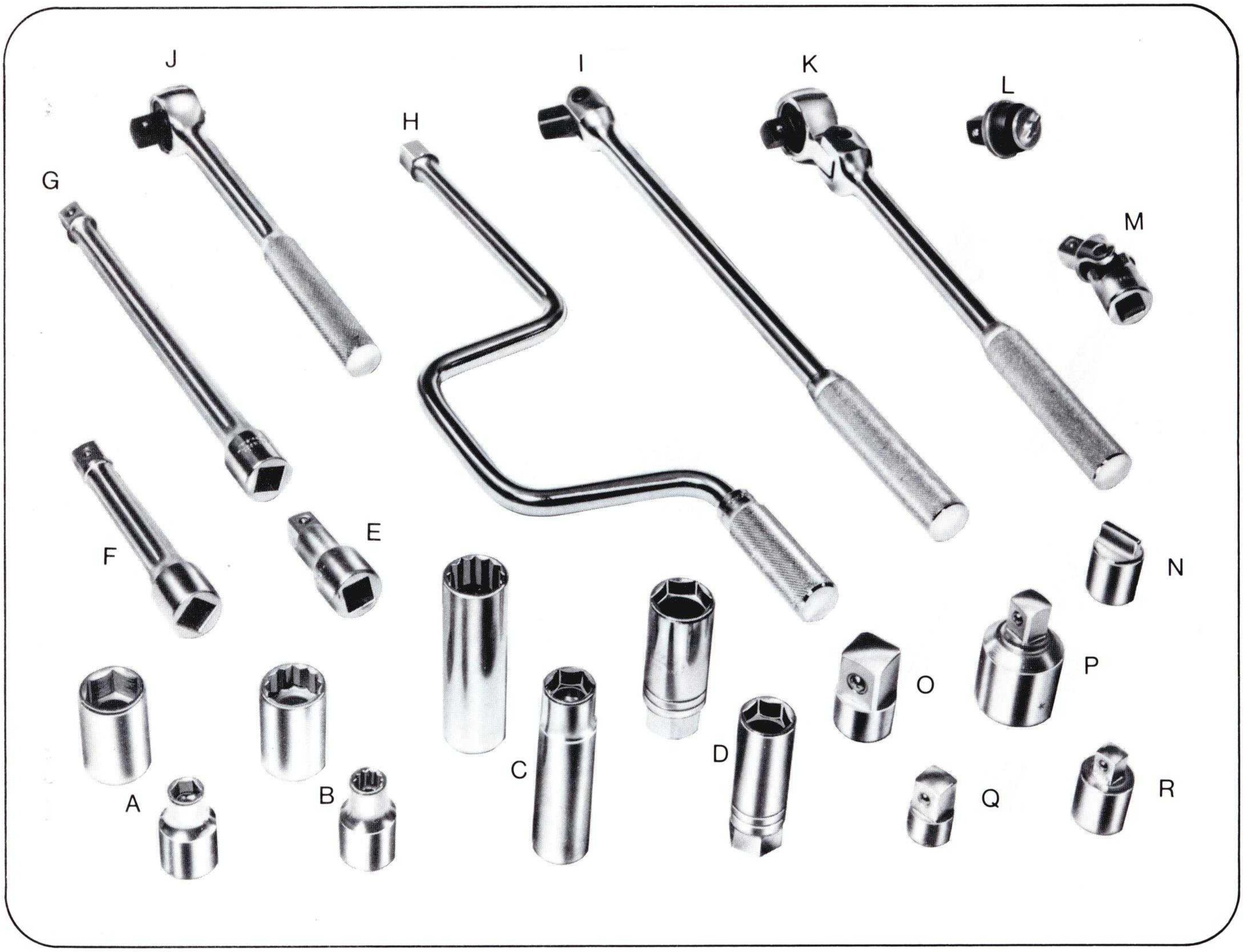
Tool No.	Overall Length
*1270	7-1/2"

N. Ratchet Repair Assembly

Tool No.	No. of Teeth	Fits Ratchet Nos.
1260RK	60	1260, 1262

*Available carded. Add "C" prefix to Tool No. when ordering.

1/2" DRIVE SOCKETS & ATTACHMENTS



A. Standard Length Sockets, 6 Point

Tool No.	Size	Overall Length
1612H	3/8″	1-7/16″
1614H	7/16″	1-7/16″
1616H	1/2″	1-7/16″
1618H	9/16″	1-1/2″
1620H	5/8″	1-1/2″
1622H	11/16″	1-1/2″
1624H	3/4″	1-1/2″

B. Standard Length Sockets, 12 Point

Tool No.	Size	Overall Length
1612	3/8″	1-7/16″
*1614	7/16″	1-7/16″
*1616	1/2″	1-7/16″
*1618	9/16″	1-1/2″
*1620	5/8″	1-1/2″
*1622	11/16″	1-1/2″
*1624	3/4″	1-1/2″
*1626	13/16″	1-1/2″
*1628	7/8″	1-9/16″
*1630	15/16″	1-9/16″
*1632	1″	1-9/16″
1634	1-1/16″	1-5/8″
1636	1-1/8″	1-3/4″
1638	1-3/16″	1-3/4″
1640	1-1/4″	1-3/4″

C. Deep Length Sockets, 12 Point

Tool No.	Size	Overall Length
1716	1/2″	3-1/4″
1718	9/16″	3-1/4″
1720	5/8″	3-1/4″
1722	11/16″	3-1/4″
1724	3/4″	3-1/4″
1726	13/16″	3-1/4″
1728	7/8″	3-1/4″
1730	15/16″	3-1/4″
1732	1″	3-1/4″
1734	1-1/16″	3-1/4″
1736	1-1/8″	3-1/4″

D. Deep Length Spark Plug Sockets, 6 Point

Tool No.	Size	Overall Length	Replacement Rubber Insert
1720HP	5/8″	2-1/2″	5021-51
*1726HP	13/16″	2-1/2″	5026RA

E. Extension

Tool No.	Overall Length
1665	2-1/2″

F. Extension

Tool No.	Overall Length
*1666	5″

G. Extension

Tool No.	Overall Length
*1667	10″

H. Speed Handle

Tool No.	Overall Length
1675	16-1/4″

I. Flex Handle

Tool No.	Overall Length
*1670	15-3/4″

J. Reversible Ratchet

Tool No.	Overall Length	No. of Teeth	Repair Kit No.
*1660	10″	60	1660RK

K. Flex Head Reversible Ratchet

1662	13″	60	1660RK

L. Ratchet Repair Assembly

Tool No.	Drive Size	No. of Teeth	Fits Ratchet Nos.
1660RK	1/2″	60	1660, 1662

M. Universal Joint

Tool No.	Drive Size	Overall Length
1680	1/2″	2-5/8″

N. Heavy Duty Screwdriver Bit

Tool No.	Size	Overall Length
1645	15/16″ x .154″	1-1/4″

O. Adapter

Tool No.	Size	Overall Length
1655	1/2″F x 3/4″M	1-9/16″

P. Adapter

Tool No.	Size	Overall Length
1653	3/4″F x 1/2″M	2-1/8″

Q. Adapter

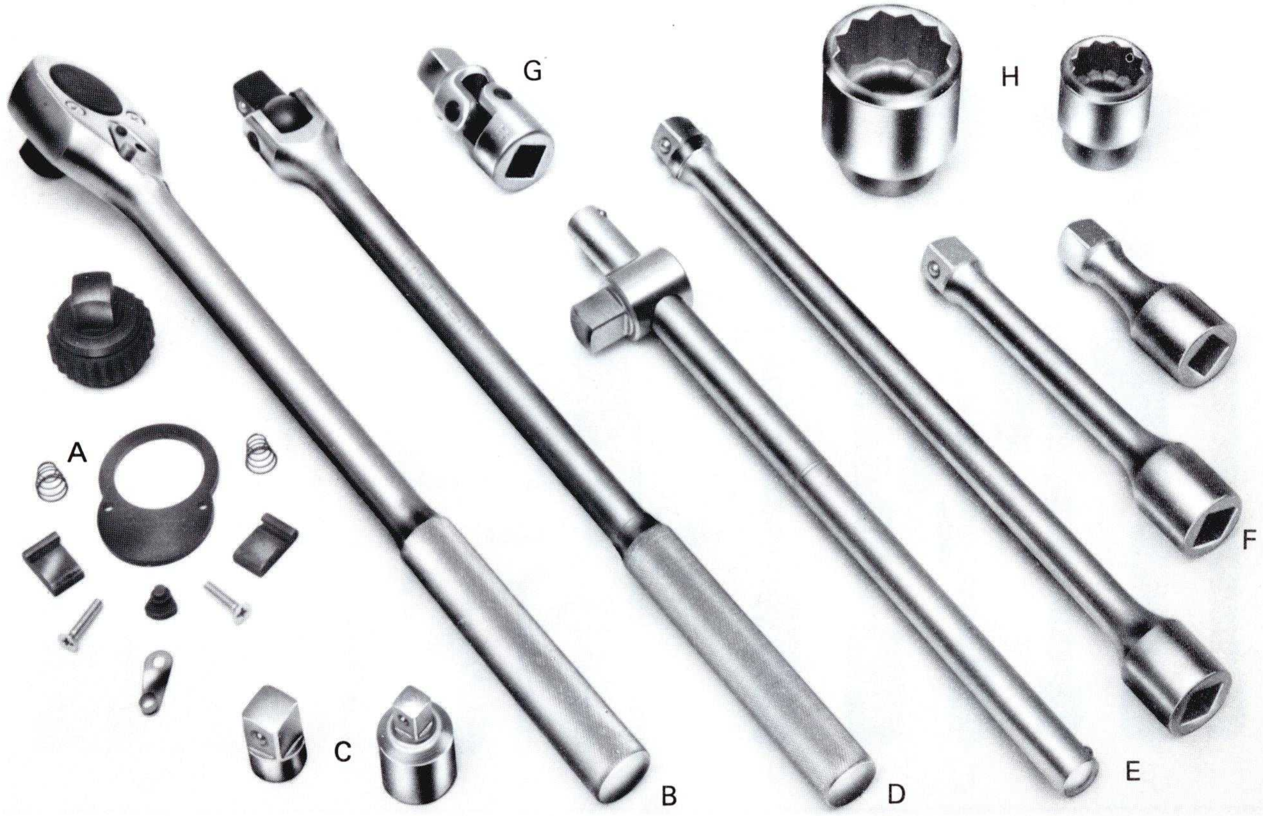
Tool No.	Size	Overall Length
1654	3/8″F x 1/2″M	1-3/16″

R. Adapter

Tool No.	Size	Overall Length
*1254	1/2″F x 3/8″M	1-7/16″

*Available carded. Add "C" prefix to Tool No. when ordering.

3/4" DRIVE SOCKETS & ATTACHMENTS



Challenger 3/4″ drive ratchets are built to handle the toughest nut turning jobs and to provide years of efficient, trouble-free service. Ratchet direction is reversed with a simple flip of the thumb. Maintenance consists of an occasional solvent rinse to remove abrasive dirt and grit followed with a few drops of light oil. Repairs can be made quickly and easily on the job.

Challenger 1/2″ drive socket wrenches are designed and manufactured to meet the rigid requirements demanded by professional mechanics. Sockets, handles and attachments are made from special alloy steel selected for its great strength, toughness and hardenability. All forging, machining and heat treating operations must pass stringent inspection and specifications standards. Tough, strong thin wall socket design offers greater clearance and easier access to fasteners in confined spaces. Nickel chrome plate provides beautiful, lasting finish.

Challenger 1/2″ drive ratchets have the strongest, smoothest action in the industry. They exceed government strength specifications by 50% and feature a compact ratchet head that is 16% smaller than conventional round head ratchets. Precision 60 teeth action requires only 6 degree arc to obtain new "bite". Knurled handle provides comfortable, non-slip grip. Beautiful nickel chrome plate protects highly polished ratchet body.

A. Ratchet Repair Kit

Tool No.	Drive Size	Fits Ratchet No.
1861RK	3/4″	*1861

*For old style No. 1861 ratchet with small round head order Repair Kit No. 1861-1P.

B. Reversible Ratchet

Tool No.	Overall Length	Repair Kit No.
1861	20″	†1861RK

†For old style No. 1861 ratchet with small round head order Repair Kit No. 1861-1P.

C. Adapters

Tool No.	Size	Overall Length
1653	3/4″F x 1/2″M	2-1/8″
1655	1/2″F x 3/4″M	1-9/16″

D. Flex Handle

Tool No.	Overall Length
1870	20″

E. Sliding T-Handle

Tool No.	Overall Length
1818	15″

F. Extensions

Tool No.	Overall Length
1813	4″
1815	8″
1817	16″

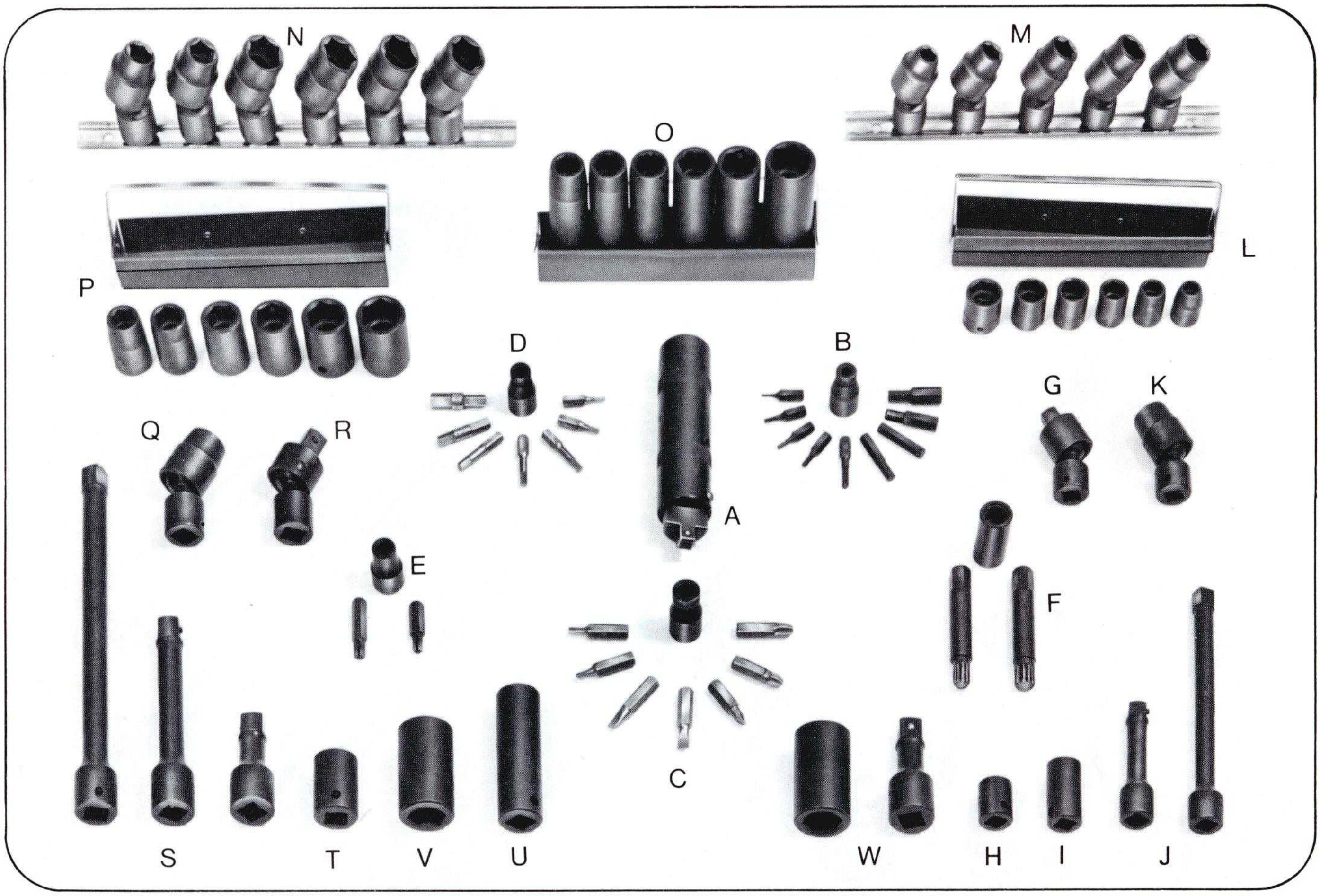
G. Universal Joint

Tool No.	Drive Size	Overall Length
1880	3/4″	3-5/8″

H. Standard Length Sockets, 12 Point

Tool No.	Size	Overall Length
1828	7/8″	2″
1830	15/16″	2″
1832	1″	2″
1834	1-1/16″	2″
1836	1-1/8″	2-3/16″
1838	1-3/16″	2-1/4″
1840	1-1/4″	2-1/4″
1842	1-5/16″	2-5/16″
1844	1-3/8″	2-5/16″
1846	1-7/16″	2-3/8″
1848	1-1/2″	2-1/2″
1850	1-9/16″	2-5/8″
1852	1-5/8″	2-5/8″
1854	1-11/16″	2-3/4″
1856	1-3/4″	2-3/4″
1858	1-13/16″	2-7/8″
1860	1-7/8″	3″
1864	2″	3-1/8″
1865	2-1/8″	3-1/4″
1866	2-3/16″	3-1/4″
1867	2-1/4″	3-3/8″

3/8" & 1/2" DRIVE POWER SOCKETS & ATTACHMENTS



A. **No. 1299.** Hand Impact Driver, ⅜″ Drive

B. **No. 9759.** ⅜″ Drive 10 Piece Hex Bit Set

Description	Description
1/16″ Hex Bit	7/32″ Hex Bit
3/32″ Hex Bit	1/4″ Hex Bit
1/8″ Hex Bit	5/16″ Hex Bit
5/32″ Hex Bit	3/8″ Hex Bit
3/16″ Hex Bit	Bit Holder

C. **No. C1298.** ⅜″ Drive 8 Piece Screwdriver Bit Set (Carded)

#2 Phillips	1/4″ Clutch Head
#3 Phillips	9/32″ Standard
#4 Phillips	5/16″ Standard
5/32″ Clutch Head	Bit Holder

D. **No. 9759M.** ⅜″ Drive 8 Piece Metric Hex Bit Set

2mm Hex Bit	6mm Hex Bit
3mm Hex Bit	8mm Hex Bit
4mm Hex Bit	10mm Hex Bit
5mm Hex Bit	Bit Holder

E. **No. C1296.** ⅜″ Drive 3 Pc. Metric 12 Pt. Bit Set (Carded)

Tool No.	Description
†1296A	6mm 12 Point Bit
†1296B	8mm 12 Point Bit
†1296S	Bit Holder

F. **No. C1297.** ⅜″ Drive 3 Pc. Metric 12 Pt. Bit Set (Carded)

†1297A	10mm 12 Point Bit
†1297B	12mm 12 Point Bit
†1297S	Bit Holder

†May be purchased separately.

G. **No. 7270.** ⅜″ Drive Power Universal Joint

H. ⅜″ Drive Standard Length Power Sockets, 6 Point

Tool No.	Size	Tool No.	Size
7210H	5/16″	7218H	9/16″
7212H	3/8″	7220H	5/8″
7214H	7/16″	7222H	11/16″
7216H	1/2″		

I. ⅜″ Drive Deep Length Power Sockets, 6 Point

Tool No.	Size	Tool No.	Size
★7710H	5/16″	★7718H	9/16″
★7712H	3/8″	★7720H	5/8″
★7714H	7/16″	★7722H	11/16″
★7716H	1/2″		

J. ⅜″ Drive Power Extensions

7175P	3″	7176P	6″

K. ⅜″ Drive Power Universal Sockets

7273	3/8″	7276	9/16″
7274	7/16″	7277	5/8″
7275	1/2″		

L. **No. 7200A.** ⅜″ Drive 6 Piece Power Socket Set

7210H	5/16″	7218H	9/16″
7212H	3/8″	7220H	5/8″
7214H	7/16″	5290	Steel Tray
7216H	1/2″		

M. **No. 7200C.** ⅜″ Drive 5 Piece Power Universal Socket Set

7273	3/8″	7277	5/8″
7274	7/16″	2585	Socket Bar
7275	1/2″	2591	Socket Clip (5 each)
7276	9/16″		

N. **No. 7400E.** ½″ Drive 6 Point Power Universal Socket Set

7474	7/16″	7478	11/16″
7475	1/2″	7479	3/4″
7476	9/16″	2585	Socket Bar
7477	5/8″	2592	Socket Clip (6 each)

O. **No. 7300A.** ½″ Drive 6 Piece Deep Power Socket Set

7316H	1/2″	7324H	3/4″
7318H	9/16″	7326H	13/16″
7320H	5/8″	5392	Steel Tray
7322H	11/16″		

P. **No. 7400D.** ½″ Drive 6 Piece Power Socket Set

Tool No.	Size	Tool No.	Size
7416H	1/2″	7424H	3/4″
7418H	9/16″	7426H	13/16″
7420H	5/8″	9974	Steel Tray
7422H	11/16″		

Q. ½″ Drive Power Universal Sockets, 6 Point

7474	7/16″	7477	5/8″
7475	1/2″	7478	11/16″
7476	9/16″	7479	3/4″

R. **No. 7470.** ½″ Drive Power Universal Joint

S. ½″ Drive Power Extensions

7182P	2-11/16″	7184P	9″
7181P	5″		

T. ½″ Drive Standard Length Power Sockets, 6 Point

7412H	3/8″	7426H	13/16″
7414H	7/16″	7428H	7/8″
7416H	1/2″	7430H	15/16″
7418H	9/16″	7432H	1″
7420H	5/8″	7434H	1-1/16″
7422H	11/16″	7436M	36mm
7424H	3/4″		

U. ½″ Drive Deep Length Power Sockets, 6 Point

7312H	3/8″	7324H	3/4″
7314H	7/16″	7326H	13/16″
7316H	1/2″	7328H	7/8″
7318H	9/16″	7330H	15/16″
7320H	5/8″	7332H	1″
7322H	11/16″	7334H	1-1/16″

V. ½″ Drive Double End Power Socket, 6 Point

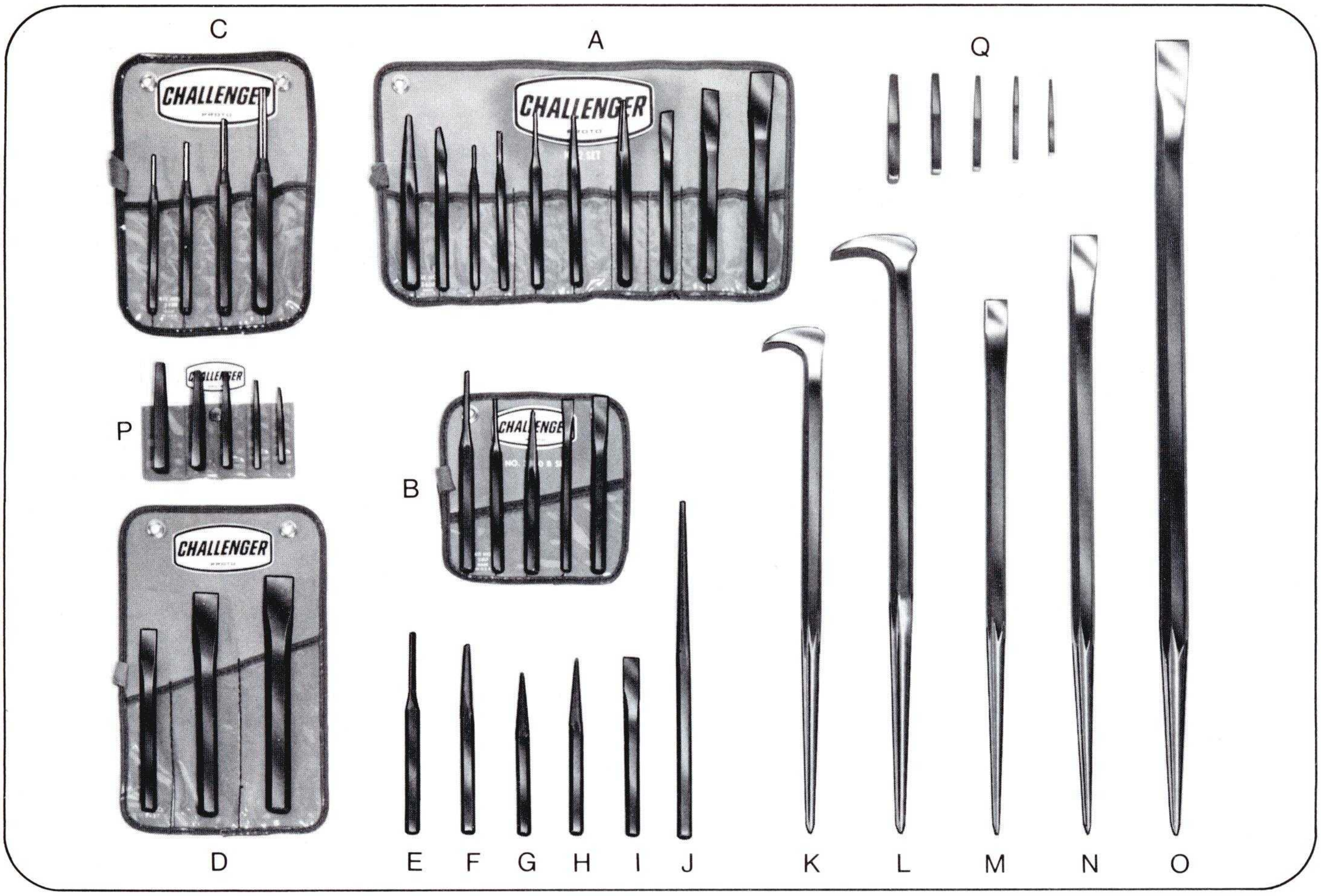
Tool No.	Description
7401	Double End Socket, 3/4″ x 13/16″

W. ½″ Drive Double End Socket and Extension

7401	Double End Socket, 3/4″ x 13/16″
7182P	Extension, 2-11/16″

★New Item!

PUNCHES, CHISELS, BARS & EXTRACTORS



A. No. 100A. 10 Piece Punch and Chisel Set

Tool No.	Description	Size
61A	Pin Punch	3/32″ End Dia.
62A	Pin Punch	1/8″ End Dia.
64A	Pin Punch	3/16″ End Dia.
68A	Solid Punch	1/8″ End Dia.
69A	Solid Punch	3/16″ End Dia.
73A	Cold Chisel	7/16″ Cut
74A	Cold Chisel	5/8″ Cut
75A	Cold Chisel	3/4″ Cut
87A	Prick Punch	
89A	Center Punch	
100K	Vinyl Roll-up Kit	

B. No. 99A. 5 Piece Punch and Chisel Set

61A	Pin Punch	3/32″ End Dia.
64A	Pin Punch	3/16″ End Dia.
72A	Cold Chisel	3/8″ End Dia.
73A	Cold Chisel	7/16″ End Dia.
87A	Prick Punch	
99K	Vinyl Roll-up Kit	

C. No. 102A. 4 Piece Pin Punch Set

61A	Pin Punch	3/32″ End Dia.
62A	Pin Punch	1/8″ End Dia.
64A	Pin Punch	3/16″ End Dia.
65A	Pin Punch	1/4″ End Dia.
102K	Vinyl Roll-up Kit	

D. No. 101A. 3 Piece Cold Chisel Set

73A	Cold Chisel	7/16″ Cut
74A	Cold Chisel	5/8″ Cut
75A	Cold Chisel	3/4″ Cut
101K	Vinyl Roll-up Kit	

E. Drift or Pin Punches

Tool No.	End Diameter	Hex Stock Size	Overall Length
61A	3/32″	1/4″	4-3/4″
62A	1/8″	5/16″	5-1/4″
63A	5/32″	5/16″	5-5/8″
*64A	3/16″	3/8″	6-1/8″
*65A	1/4″	1/2″	6-3/4″

F. Solid or Starting Punches

Tool No.	End Diameter	Hex Stock Size	Overall Length
68A	1/8″	5/16″	5-1/8″
69A	3/16″	3/8″	5-5/8″
67A	1/4″	1/2″	6-1/2″

G. Center Punches

Tool No.	Hex Stock Size	Overall Length
89A	3/8″	4-7/8″
*90A	1/2″	5-5/8″

H. Prick Punches

*87A	3/8″	5-1/4″
88A	1/2″	5-3/4″

I. Cold Chisels

Tool No.	Cut Width	Hex Stock Size	Overall Length	Tool No.	Cut Width	Hex Stock Size	Overall Length
71A	5/16″	1/4″	5-1/8″	*74A	5/8″	1/2″	6-5/8″
72A	3/8″	5/16″	5-3/8″	75A	3/4″	19/32″	7″
*73A	7/16″	3/8″	5-1/2″	76A	7/8″	23/32″	8″

J. Long Taper Punches

Tool No.	End Diameter	Hex Stock Size	Overall Length
94A	1/8″	5/16″	10″
95A	3/16″	3/8″	10″
97A	1/4″	1/2″	10″
96A	5/16″	5/8″	10″

K. Rolling Head Bar

Tool No.	Hex Stock Size	Overall Length
126	1/2″	16″

L. Rolling Head Bar

Tool No.	Hex Stock Size	Overall Length
130	5/8″	18″

M. Aligning Pry Bar

Tool No.	Hex Stock Size	Overall Length
9730	1/2″	16″

N. Aligning Pry Bar

Tool No.	Hex Stock Size	Overall Length
9731	5/8″	18″

O. Aligning Pry Bar

Tool No.	Hex Stock Size	Overall Length
9732	3/4″	24″

P. No. 1976. 5 Piece Screw Extractor Set

Tool No.	Description	Drill Size
9720	Screw Extractor	1/8″
9721	Screw Extractor	3/16″
9722	Screw Extractor	15/64″
9723	Screw Extractor	5/16″
9724	Screw Extractor	3/8″
	Plastic Pouch	

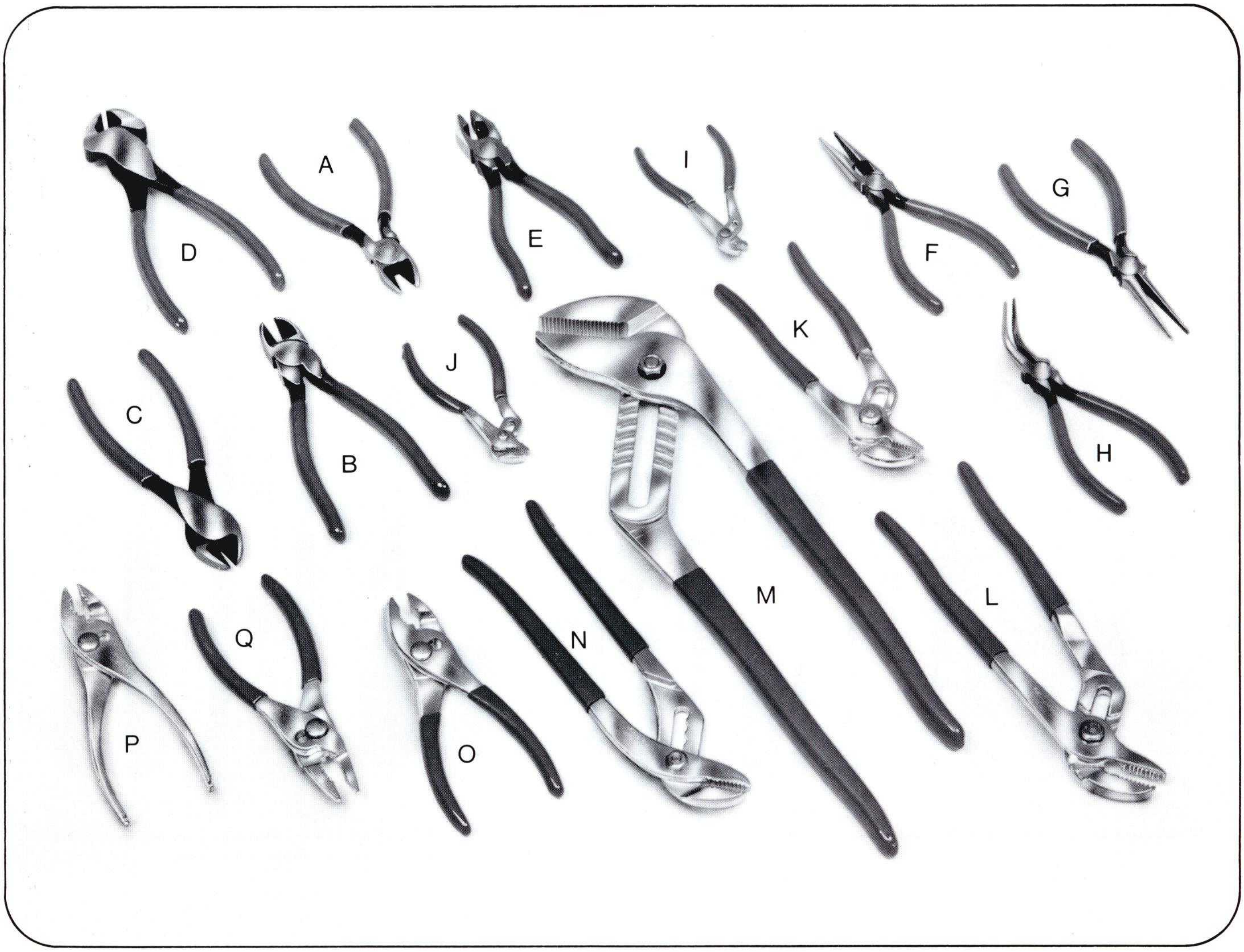
Q. Screw Extractors Hardened alloy steel. Chemical black finish.

Tool No.	Size of Small End	Size of Shank	Overall Length	U.S.S. Screw, Stud or Bolt Size	Drill Size	Min. Depth of Hole	Pipe Size
9720	1/8″	3/16″	2-5/16″	1/4″, 5/16″	1/8″	3/8″	1/8″
9721	11/64″	3/16″	2-5/8″	3/8″	3/16″	1/2″	—
†9722	13/64″	1/4″	2-7/8″	7/16″	15/64″	1/2″	1/8″
9723	19/64″	5/16″	3″	1/2″, 9/16″	5/16″	1/2″	1/4″
9724	11/32″	3/8″	3-1/4″	5/8″	3/8″	5/8″	3/8″

†For broken grease fittings.

*Available carded. Add "C" prefix to Tool No. when ordering.

STANDARD PLIERS



A. Diagonal Cutting Pliers

Tool No.	Overall Length
*3366G	6-3/16″

G—Plastisol dipped handles

B. Diagonal Cutting Pliers

Tool No.	Overall Length
3367G	7-5/16″

G—Plastisol dipped handles

C. Heavy Duty Diagonal Cutting Pliers

Tool No.	Overall Length
*3377G	7-1/8″

G—Plastisol dipped handles

D. High Leverage End Cutting Pliers

Tool No.	Overall Length
3272G	7-1/4″

G—Plastisol dipped handles

E. Lineman's Side Cutting Pliers

Tool No.	Overall Length
3346G	6-1/2″
3358G	8-5/8″

G—Plastisol dipped handles

F. Needle Nose Pliers with Side Cutter

Tool No.	Overall Length
*3050G	6-13/16″

G—Plastisol dipped handles

G. Needle Nose Pliers

Tool No.	Overall Length
3051G	6-7/8″

G—Plastisol dipped handles

H. Curved Needle Nose Pliers

Tool No.	Overall Length
3225G	6″

G—Plastisol dipped handles

I. Midget Angle Nose Pliers, Chrome

Tool No.	Overall Length
3204G	4-5/8″
3204	4-9/16″

G—Plastisol dipped handles

J. Power-Track® II Ignition Pliers, Chrome

Tool No.	Overall Length
★ 3261G	4-13/16″
★ 3261	4-3/4″

G — Plastisol dipped handles

K. Power-Track® II Multi-Purpose Pliers, Chrome

Tool No.	Overall Length
★ 3262G	6-5/8″
★ 3262	6-9/16″

G — Plastisol dipped handles

L. Power-Track® II Multi-Purpose Pliers, Chrome

Tool No.	Overall Length
★ *3263G	9-11/16″
★ 3263	9-5/8″
★ 3264G	12-1/16″
★ 3264	12″

G — Plastisol dipped handles

M. Power-Track® II Giant Pliers, Chrome with Plastisol Grips

Tool No.	Overall Length
★ 3265G	16-1/2″

G — Plastisol dipped handles

N. General Utility Pliers, Chrome

Tool No.	Overall Length
3339G	8-1/8″

G—Plastisol dipped handles

O. Combination Slip Joint Pliers, Chrome

Tool No.	Overall Length
3105G	5-7/16″
3105	5-3/8″
*3126G	6-7/16″
*3126	6-3/8″
*3148G	8-1/16″
*3148	8″
3160G	10-1/16″
3160	10″

G—Plastisol dipped handles

P. Combination Slip Joint Pliers, Satin Chrome

Tool No.	Overall Length
3136	6-3/8″
3158	8″
3170	10″

Q. Thin Nose Slip Joint Pliers, Chrome

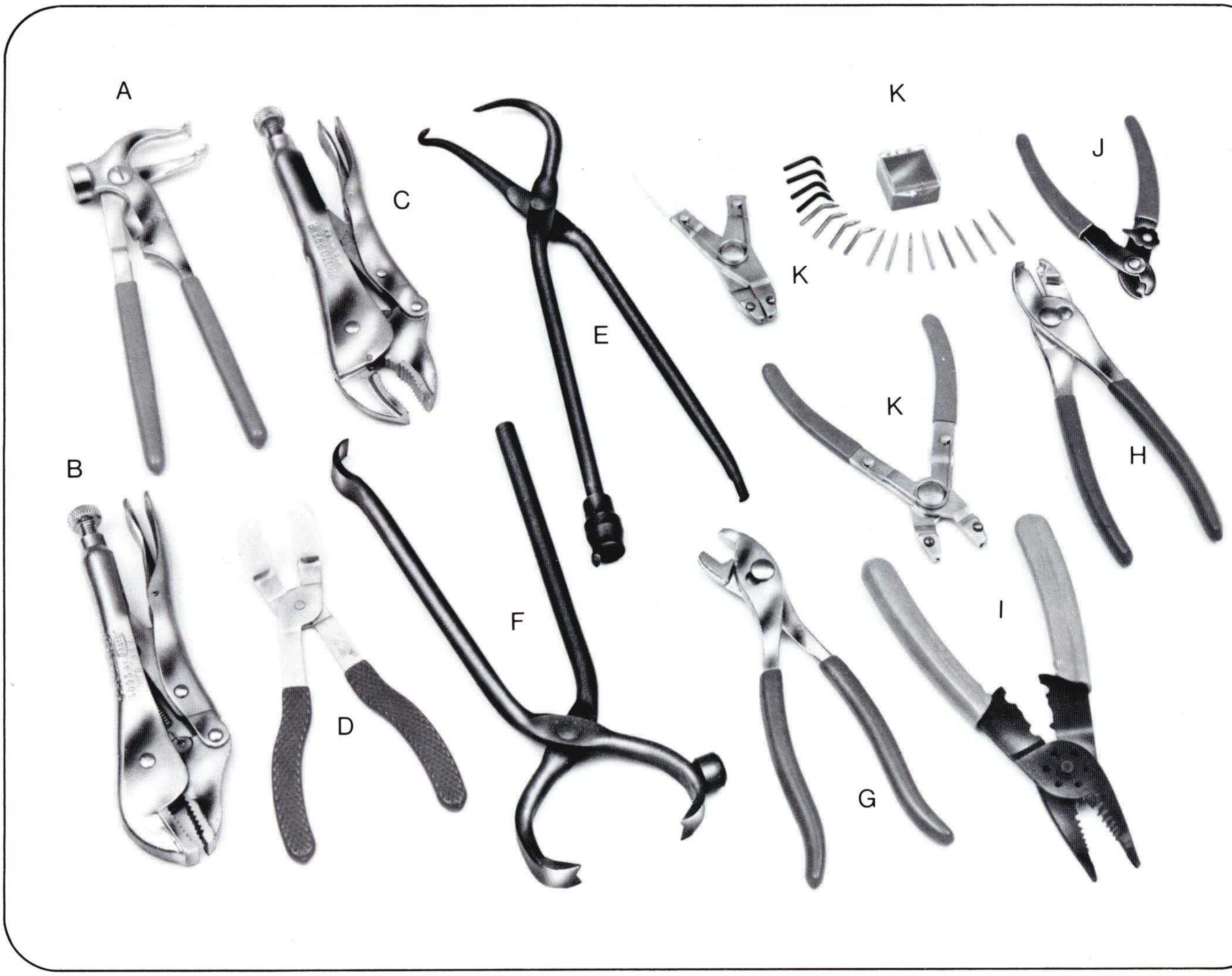
Tool No.	Overall Length
3246G	6-1/2″
3246	6-7/16″

G—Plastisol dipped handles

*Available carded. Add "C" prefix to Tool No. when ordering.

★New Item!

SPECIAL PLIERS



A. Wheel Weight Pliers

A necessary tool for removing, installing and trimming wheel weights. Has built-in cutter and clip spreader. Durable chrome plate. Comfortable cushion grips.

Tool No.	Overall Length
25K	9-1/4"

B. Lever-Wrench Pliers—Straight Jaws

Four tools in one—a powerful hand vise, clamp, pipe wrench and pliers. Lever action locks jaws in holding position with applied pressure up to one ton. Quick release removes pressure instantly.

Tool No.	Overall Length
*3093	8"

C. Lever-Wrench Pliers—Curved Jaws

Same as No. 3093 but with curved jaws.

Tool No.	Overall Length
3094	8-3/4"

D. Spark Plug Terminal Pliers

Heavy duty nylon tips and thick vinyl covered handles insulate to 25,000 volts. Angled jaws cover wide range of wire and terminal sizes and permit access to hard-to-reach spark plugs.

Tool No.	Overall Length	Replacement Nylon Tips
3253G	7-1/2"	253J

E. All Purpose Brake Spring Pliers

Curved jaw clears edge of brake shoe to bring it into close alignment with center line of spring. Thin hooked jaw slips easily under spring. Replaceable Bendix socket on one handle fits over anchor pin and lug and lifts off anchor springs. Other handle has shovel for replacing anchor pin springs. A necessary tool for auto mechanics.

Tool No.	Overall Length	Replacement Bendix Socket No.
3227	12-7/8"	2005SRK

F. Hub and Grease Cap Pliers

Removes grease caps and hub caps quickly and easily. Has tapered V-cut jaws, solid rivet joint and rust resistant black oxide finish.

Tool No.	Overall Length
563	11-1/2"

G. Battery Pliers

Thin jaws at 30° angle make terminal nuts easily accessible. Precision machined teeth grip nuts and bolts firmly. Two jaw positions. Chrome plated.

Tool No.	Overall Length
3318G	7-15/16"

G—Plastisol dipped handles.

H. Hose Clamp Pliers

Installs and removes wire spring tension clamps. Two position jaws grip full range of clamp sizes. Chrome plated.

Tool No.	Overall Length
3000G	7-13/16"
3000	7-3/4"

G—Plastisol dipped handles.

I. Wire Stripper, Crimping Tool and Bolt Slicer

Grips, twists, cuts and strips wire. Slices bolts and crimps terminals. An essential, all-purpose wire pliers. Black oxide finish with vinyl cushion grip handles.

Tool No.	Overall Length
3298G	8-3/8"

J. Miniature Wire Stripper

Notches in jaws nick insulation for clean fast wire stripping. Handles are adjustable to regulate opening between "V" notches in jaws. Face ground jaw edges cut soft wire up to 14 gauge. Comes with red vinyl grips.

Tool No.	Overall Length
3299G	5"

G—Plastisol dipped handles.

K. No. 3388. Retaining Ring Pliers Set

Contains the following:

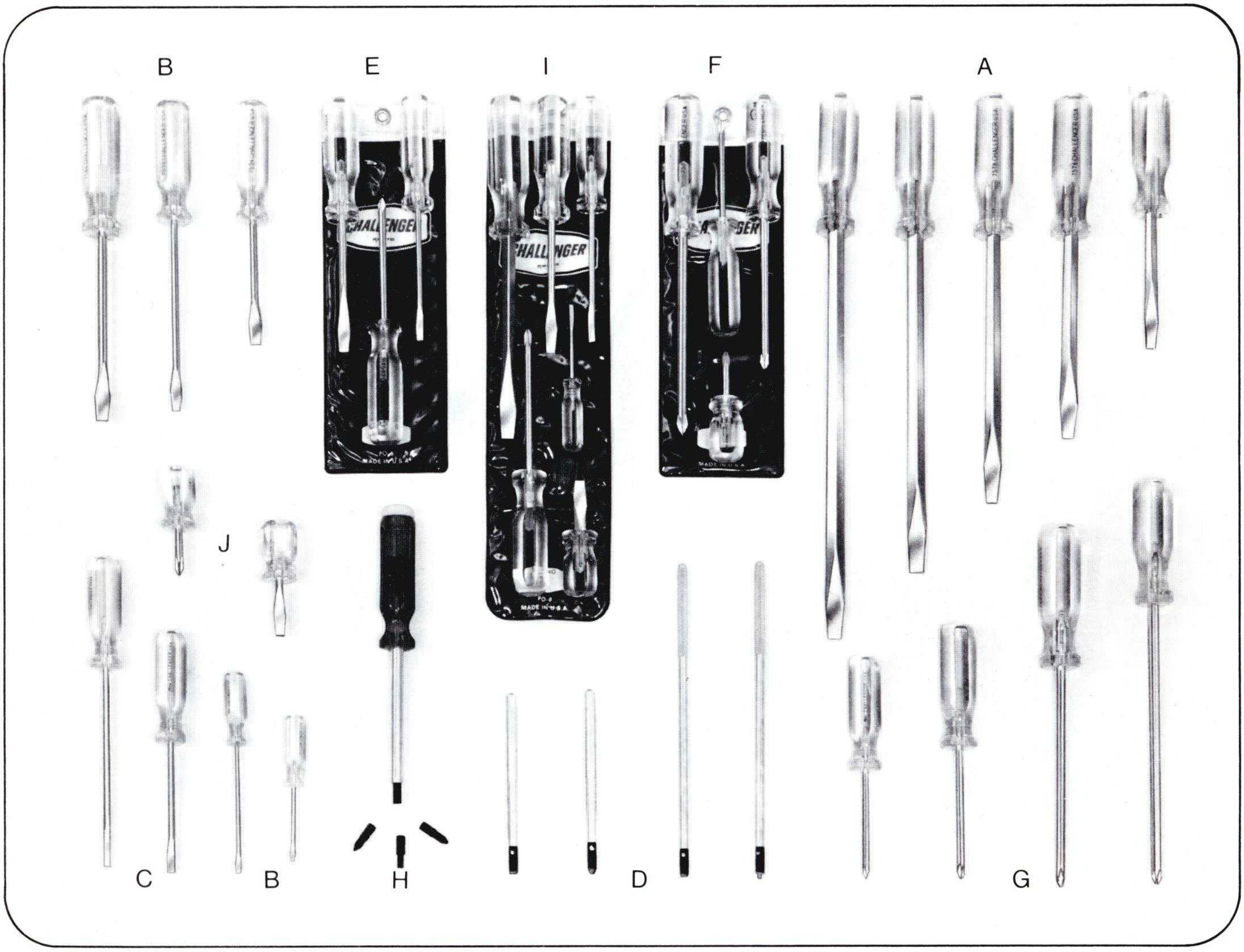
Qty.	Description
1	Internal Pliers
1	External Pliers
4	90° Tips, .035"
4	45° Tips, .045"
4	Straight Tips, .045"
4	Straight Tips, .060"
1	Plastic Box for Tip Storage
†1	Plastic Organizer Tray
†1	Plastic Storage Box

†Not shown. See page 32D for picture of No. 3388 set as sold.

For one pair each of tips listed above order No. 3388T.

*Available carded. Add "C" prefix to Tool No. when ordering.

SCREWDRIVERS & SCREW STARTERS



Challenger offers a broad line of screwdrivers and screw starters in a variety of shapes, sizes and tip configurations to handle most screw turning applications. Blades are heat treated their entire length. Tips are precision ground to prevent rising out of screw slots. Handles are big, comfortable and deep fluted to provide extra gripping and turning power with less fatigue. Magnetic screwdriver comes complete with four tips—two Phillips and two standard. Screw starters have powerful screw holding mechanism to hold screws firmly for quick, easy starting.

A. Standard Tip Screwdrivers, Square Shank

Tool No.	Shank Size	Blade Length	Overall Length
*7564	1/4″	4″	8″
7576	5/16″	6″	10-1/2″
*7578	5/16″	8″	12-1/2″
7589	3/8″	10″	14-1/2″
7590	3/8″	12″	16-1/2″

B. Standard Tip Screwdrivers, Round Shank

7512	1/8″	2-1/4″	4-1/2″
7514	1/8″	3-1/2″	5-3/4″
*7534	1/4″	4″	8″
*7536	1/4″	6″	10-3/8″
7546	5/16″	6″	10-5/8″

C. Cabinet Tip Screwdrivers, Round Shank

Tool No.	Shank Size	Blade Length	Overall Length
*7524	3/16″	4″	8″
7526	3/16″	6″	10″

D. Screw Starters

Starts screws quickly and easily with a twist of the fingers. Screw holding mechanism has gripping power of five to nine inch pounds.

Tool No.	Type Tip	Overall Length
7553	Standard	5-1/2″
7555	Standard	9-1/2″
7584	Phillips	5-5/8″
7586	Phillips	9-5/8″

E. No. 7501. 3 Piece Screwdriver Set

Tool No.	Description	Blade Size
7524	Cabinet	3/16″x4″ Round
7534	Standard	1/4″x4″ Round
7582	Phillips #2	1/4″x4-1/2″ Round
P06	Vinyl Pouch	

F. No. 7503. 4 Piece Phillips Screwdriver Set

Tool No.	Description	Blade Size
7581	Phillips #1	3/16″x3″
7580	Phillips #2	1/4″x1-3/8″
7582	Phillips #2	1/4″x4-1/2″
7583	Phillips #3	5/16″x6″
P07	Vinyl Pouch	

G. Phillips Tip Screwdrivers, Round Shank

Tool No.	Type Tip	Shank Size	Blade Length	Overall Length
*7581	No. 1	3/16″	3″	6-3/8″
*7582	No. 2	1/4″	4-1/2″	8-1/2″
7585	No. 2	1/4″	8″	12″
7583	No. 3	5/16″	6″	10-1/2″

H. Magnetic Screwdriver with 4 Bits

Comes complete with four interchangeable bits. One each 3/16″ and 1/4″ standard slotted bits and one each No. 1 and No. 2 Phillips bits. Bits are held in shank by magnetic force which is transmitted through bit to screw. Driver can be used as 1/4″ nut driver when bits are not in place. Extra bits can be stored in handle.

Tool No.	Overall Length
7500	9″

I. No. 7504. 6 Piece Screwdriver Set

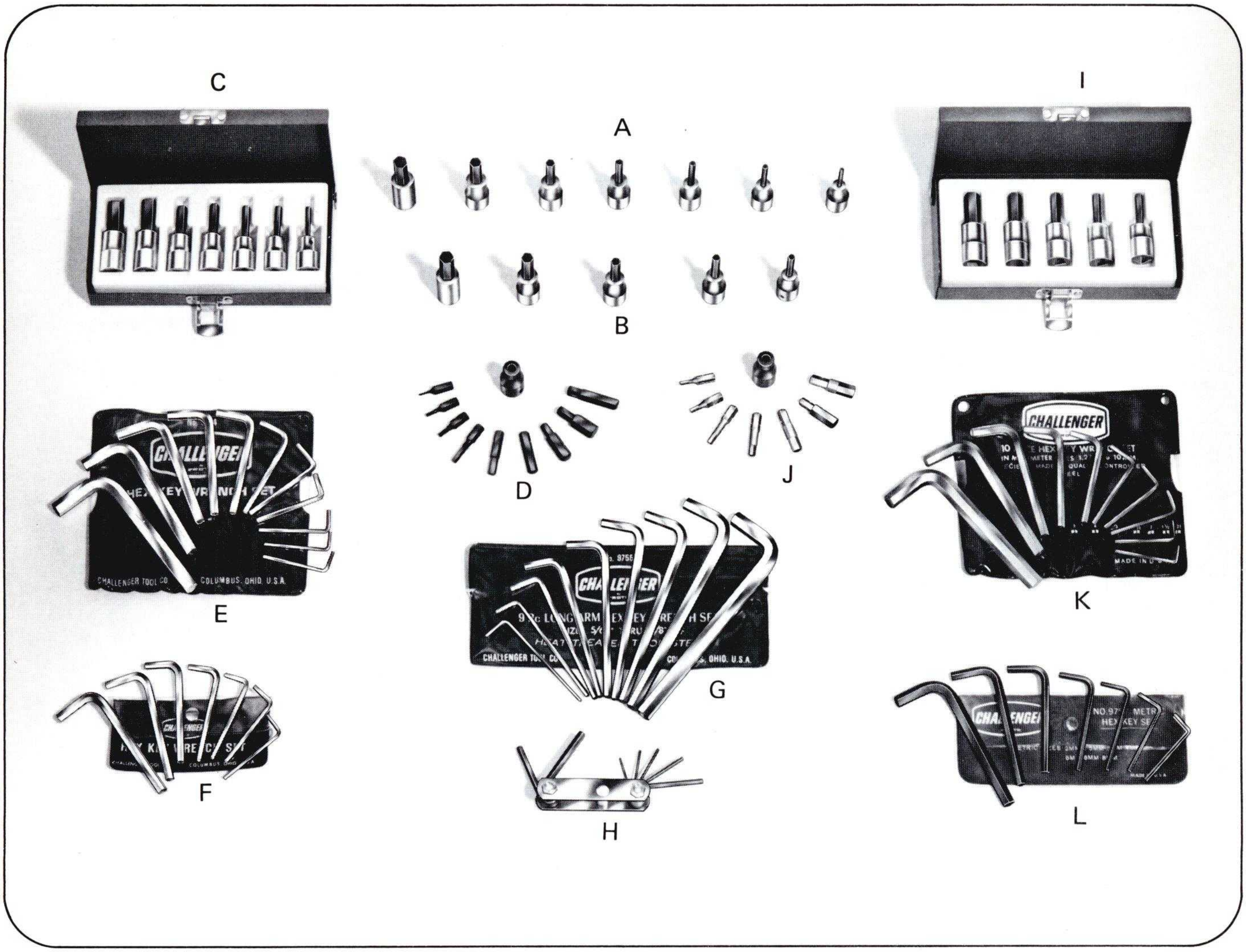
Tool No.	Description	Blade Size
7524	Cabinet	3/16″ x 4″ Round
7532	Standard, Stubby	1/4″ x 1-5/8″ Round
7512	Standard	1/8″ x 2-1/4″ Round
7534	Standard	1/4″ x 4″ Round
7576	Standard	5/16″ x 6″ Square
7582	Phillips #2	1/4″ x 4-1/2″ Round
P08	Vinyl Pouch	

J. Stubby Screwdrivers, Round Shank

Tool No.	Type Tip	Shank Size	Blade Length	Overall Length
*7532	Standard	1/4″	1-5/8″	3-1/2″
*7580	Phillips #2	1/4″	1-3/8″	3-1/4″

*Available carded. Add "C" prefix to Tool No. when ordering.

HEX BITS & HEX WRENCHES



A. ⅜″ Drive Hex Bits

Tool No.	Bit Size	Repl. Bit No.
1490 1/8	1/8″	4980RK
1490 5/32	5/32″	4981RK
1490 3/16	3/16″	4982RK
1490 7/32	7/32″	4984RK
1490 1/4	1/4″	4985RK
1490 5/16	5/16″	4987RK
*1490 3/8	3/8″	4988RK

B. 3/8″ Drive Metric Hex Bits

Tool No.	Bit Size	Repl. Bit No.
1404M	4mm	1404MRK
1405M	5mm	1405MRK
1406M	6mm	1406MRK
1408M	8mm	1408MRK
1410M	10mm	1410MRK

C. No. 1490A. ⅜″ Drive 7 Piece Hex Bit Set

Tool No.	Bit Size	Tool No.	Bit Size
1490 1/8	1/8″	1490 1/4	1/4″
1490 5/32	5/32″	1490 5/16	5/16″
1490 3/16	3/16″	1490 3/8	3/8″
1490 7/32	7/32″	9002	Steel Box

D. No. 9759. ⅜″ Drive 10 Piece Hex Bit Set

Bit Size	Bit Size
1/16″	7/32″
3/32″	1/4″
1/8″	5/16″
5/32″	3/8″
3/16″	Bit Holder

E. No. 9754. 11 Piece Short Arm Hex Wrench Set

Bit Size	Bit Size
.050″	3/16″
1/16″	7/32″
5/64″	1/4″
3/32″	5/16″
1/8″	3/8″
5/32″	Plastic Pouch

F. *No. 9753. 7 Piece Short Arm Hex Wrench Set

Size	Size
5/64″	3/16″
3/32″	7/32″
1/8″	1/4″
5/32″	Plastic Pouch

G. No. 9755. 9 Piece Long Arm Hex Wrench Set

Size	Size
5/64″	7/32″
3/32″	1/4″
1/8″	5/16″
5/32″	3/8″
3/16″	Plastic Pouch

H. No. 9756. 7 Piece Short Arm Hex Wrench Set

Size	Size
.050″	1/8″
1/16″	5/32″
5/64″	3/16″
3/32″	Steel Holder

I. No. 1400M. ⅜″ Drive 5 Piece Metric Hex Bit Set

Tool No.	Bit Size	Tool No.	Bit Size
1404M	4mm	1408M	8mm
1405M	5mm	1410M	10mm
1406M	6mm	9002	Steel Box

J. No. 9759M. ⅜″ Drive 8 Piece Metric Hex Bit Set

Bit Size	Bit Size
2mm	6mm
3mm	8mm
4mm	10mm
5mm	Bit Holder

K. No. 9758. 10 Piece Metric Hex Wrench Set

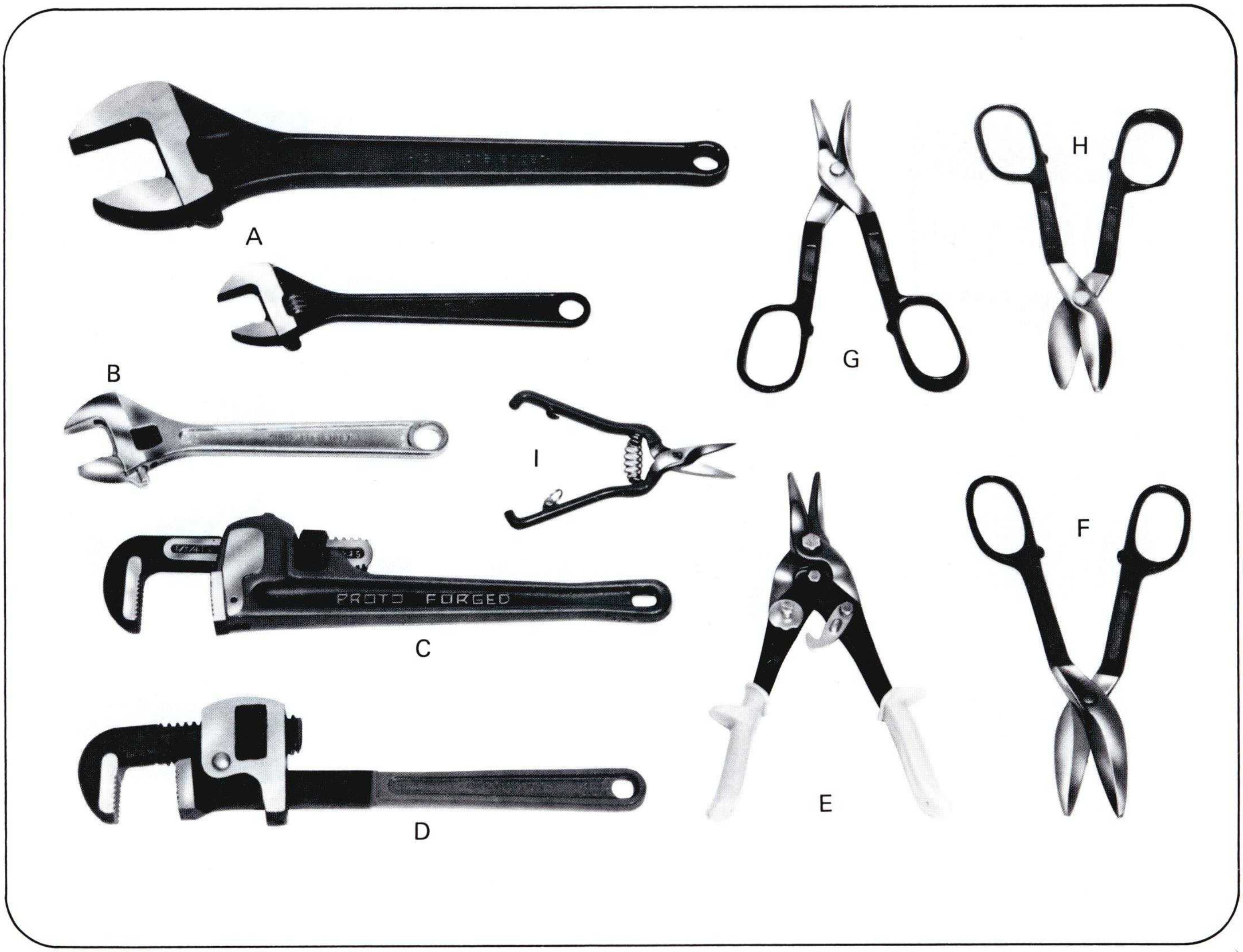
Bit Size	Bit Size
1.27mm	5mm
1.5mm	6mm
2.0mm	8mm
2.5mm	10mm
3mm	Plastic Pouch
4mm	

L. No. 9757. 7 Piece Metric Hex Wrench Set

Bit Size	Bit Size
2mm	5mm
2.5mm	6mm
3mm	8mm
4mm	Plastic Pouch

*Available carded. Add "C" prefix to Tool No. when ordering.

SNIPS, PIPE & ADJUSTABLE WRENCHES



Challenger adjustable wrenches are hot forged from special alloy steel and are available in both chrome and black industrial finish. Jaw design provides greater strength and better fit on both square and hex nuts. Thinner head gets into tighter places. Rugged I-beam handle and reinforcement of critical stress areas assure maximum strength and long service.

A. Adjustable Wrenches, Black

Tool No.	Maximum Jaw Opening	Overall Length
4204	1/2″	4″
4206	3/4″	6″
4208	1″	8″
4210	1-1/8″	10″
4212	1-5/16″	12″
4215	1-11/16″	15″
†4218	2-1/16″	18″

†Has tapered handle

B. Adjustable Wrenches, Chrome

Same features and strength characteristics as black finish wrenches but beautifully chrome plated.

Tool No.	Maximum Jaw Opening	Overall Length
4004	1/2″	4″
4004G	1/2″	4″
4006	3/4″	6″
*4006G	3/4″	6″
*4008	1″	8″
*4008G	1″	8″
4010	1-1/8″	10″
*4010G	1-1/8″	10″
*4012	1-5/16″	12″
*4012G	1-5/16″	12″
4015	1-11/16″	15″

G—Plastisol dipped handle

C. Forged Steel Heavy Duty Pipe Wrenches

Challenger cast heavy duty pipe wrenches have been replaced with Proto forged steel heavy duty pipe wrenches. Tests have shown that Proto's unique forged steel handle is safer and stronger than ductile or malleable cast iron handles found on conventional heavy duty pipe wrenches. Size for size and pound for pound they're the toughest pipe wrenches available.

Tool No.	Jaw Capacity	Overall Length
806HD-FGD	3/4″	6″
808HD-FGD	1″	8″
810HD-FGD	1-1/2″	10″
814HD-FGD	2″	14″
818HD-FGD	2-1/2″	18″

D. Stillson Pattern Pipe Wrenches

Forged steel I-beam handle. Deep milled teeth. Replaceable steel jaws. Strength exceeds government specifications for normal-duty adjustable pipe wrenches. Ideal for professional or home use.

Tool No.	Jaw Capacity	Overall Length
4108	3/4″	8″
4114	1-1/2″	14″
4118	2″	18″

E. Aviation Type Straight Cutting Snips

Compound leverage multiplies handle pressure and increases control for intricate cutting.

Tool No.	Length of Cut	Overall Length
3303S	1-3/8″	10″

F. Straight Cutting Snips

Designed for straight cutting including inside and outside corners.

3320	2-1/4″	10″

G. Duckbill Circular Cutting Snips

Designed for circle and odd shaped radius cutting.

3310	2-1/4″	10″

H. Combination Snips

Designed for making straight and moderately irregular cuts.

3330	2-1/2″	10″

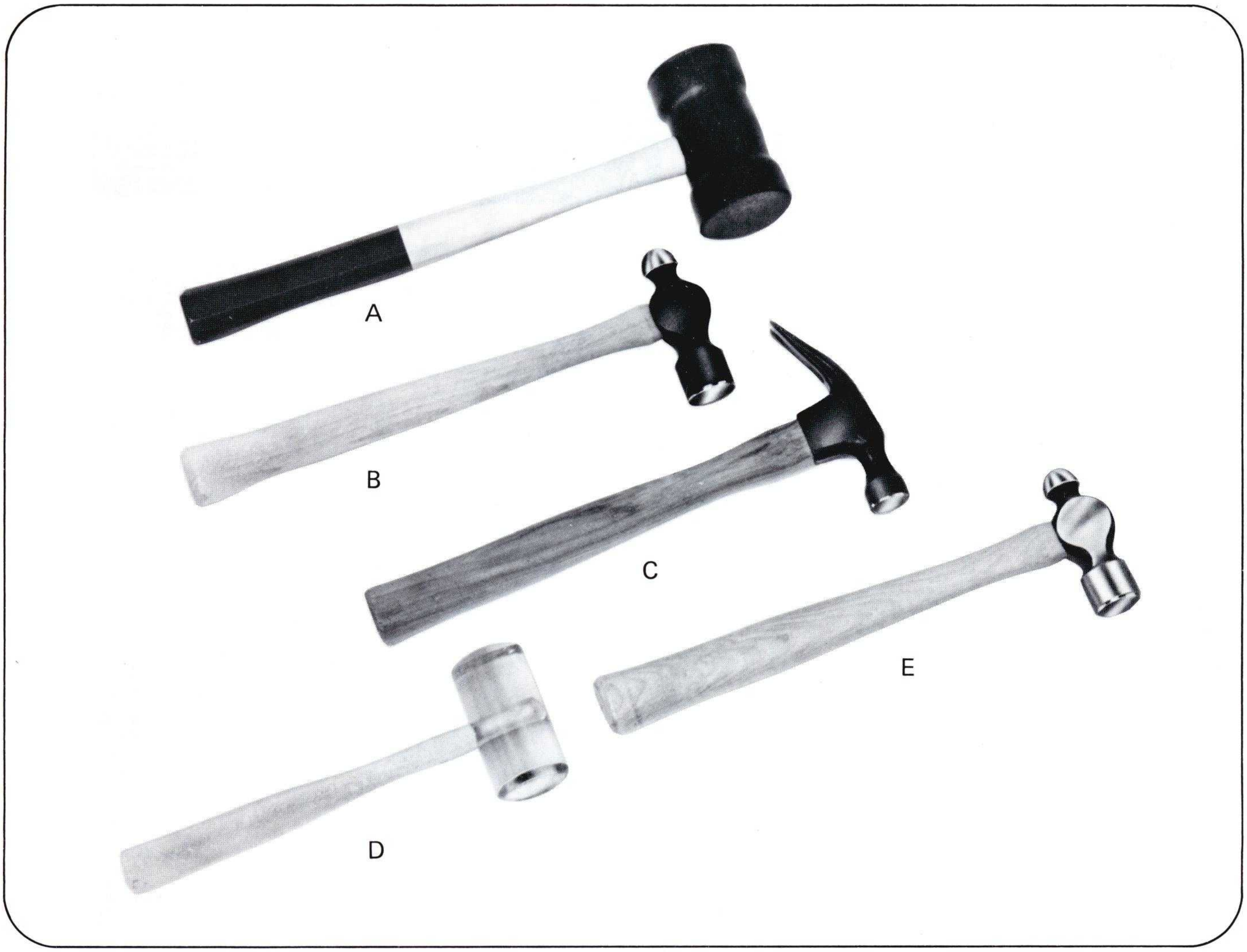
I. Miniature Snips

Excellent for lightweight cutting applications. Ideal for cutting gasket material and shim stock. Cuts cold rolled sheet to .025″. Coil spring reduces hand fatigue on repetitive cuts.

3306	1-1/8″	6-1/2″

*Available carded. Add "C" prefix to Tool No. when ordering.

BALL PEIN, SOFT-FACE & CLAW HAMMERS



A. Rubber Head Mallet

Designed for jobs requiring a large non-marring striking face. Soft, tough, non-flaking neoprene rubber head. Ideal for garages and service stations. Hardwood handle. Hourglass head design.

Tool No.	Face Diameter	Head Length	Overall Length	Replacement Handle No.
8768	2-5/8″	4-1/2″	16″	1368H

B. Ball Pein Hammers, Standard Finish

Tough, drop-forged head with hardened face and pein. Same high quality alloy steel as deluxe series but with lesser finish. Comfortable, oval shaped handle. A rugged well-balanced hammer.

Tool No.	Head Weight	Overall Length
8304	4 oz.	11″
8308	8 oz.	12″
8312	12 oz.	13″
8316	1 lb.	14-1/2″
8324	1-1/2 lb.	15″
8332	2 lb.	15-7/8″

C. Ripping Hammer, Black Finish

Tool No.	Head Weight	Type Claw	Overall Length
8565	16 oz.	Straight	13-1/4″

D. Plastic Head Mallets

Designed for use on metal and other hard materials where rebound and non-marring properties are desired.

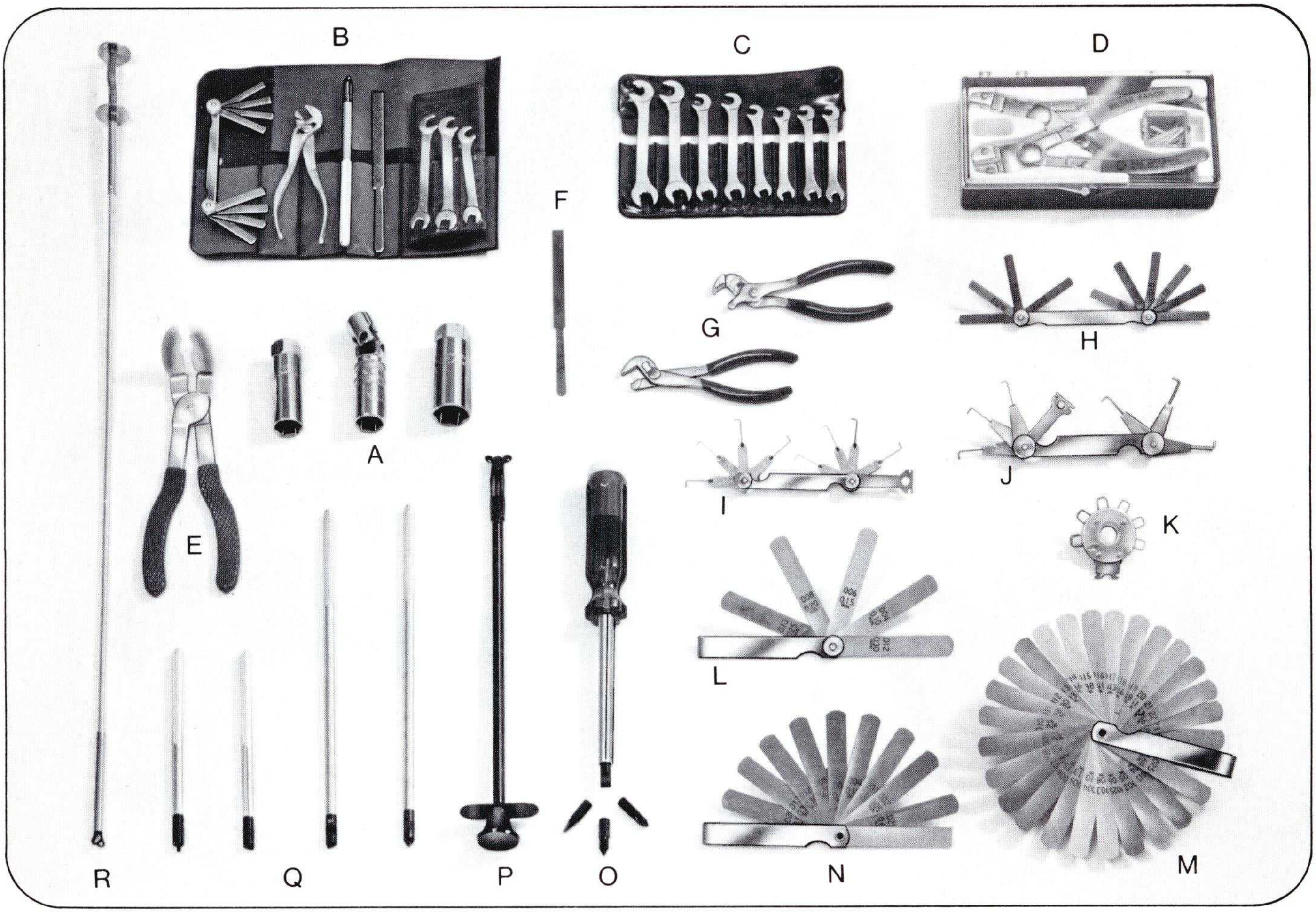
Tool No.	Face Diameter	Head Length	Total Weight
8712	1″	3″	4 oz.
8716	1-1/2″	3-1/2″	8 oz.
8724	1-5/8″	3-5/8″	10 oz.
8732	1-5/8″	6″	16 oz.

E. Ball Pein Hammers, Deluxe Finish

Tough drop-forged head with hardened face and pein. Face, chamfer, cheeks and pein are beautifully polished and have a protective coating of clear lacquer. Hardened handles have comfortable oval grip. A truly professional, well-balanced hammer.

Tool No.	Head Weight	Overall Length
8512	12 oz.	13″
8516	1 lb.	14-1/2″
8524	1-1/2 lb.	15″
8532	2 lb.	15-7/8″

AUTOMOTIVE SPECIALTY TOOLS



A. Deep Length Spark Plug Sockets, 6 Point

Tool No.	Spark Plug Size	Drive Size	Socket Type
1320HP	5/8"	3/8"	Std.
1320-70	5/8"	3/8"	Univ.
1326HP	13/16"	3/8"	Std.
1326-70	13/16"	3/8"	Univ.
1720HP	5/8"	1/2"	Std.
*1726HP	13/16"	1/2"	Std.

NOTE: Replaceable rubber insert for 5/8" sockets: 5021-51. Replaceable rubber insert for 13/16" sockets: 5026RA.

B. No. 300B. 12 Piece Ignition Set

Tool No.	Description
302	Ignition Point File
7553	Screw Starter
3204	Ignition Pliers
060D	10 Blade Ignition Gauge: .013", .015", .017", .018", .020", .025", .030", .032", .035", .040"
300A	8 Pc. Ignition Wrench Set: 13/64" x 13/64" 7/32" x 7/32" 15/64" x 15/64" 1/4" x 1/4" 9/32" x 9/32" 5/16" x 5/16" 11/32" x 11/32" 3/8" x 3/8"
300BK	Vinyl Roll-up Kit

C. No. 300A. 8 Piece Ignition Wrench Set 15° and 75° Angle Heads

Wrench Size	Wrench Size
13/64" x 13/64"	5/16" x 5/16"
7/32" x 7/32"	11/32" x 11/32"
15/64" x 15/64"	3/8" x 3/8"
1/4" x 1/4"	Vinyl Pouch
9/32" x 9/32"	

D. No. 3388. Retaining Ring Pliers Set

Includes one internal and one external pliers plus sixteen interchangeable tips in plastic box.

Quantity	Description
1	Internal Pliers
1	External Pliers
4	.035" x 90° Tips
4	.045" x 45° Tips
4	.045" Straight Tips
4	.060" Straight Tips
1	Plastic Box for Tip Storage
1	Plastic Organizer Tray
1	Plastic Set Box

For replacement tips only order No. 3388T. Contains two each of the interchangeable tips listed above. Comes in plastic bag (not shown).

E. Spark Plug Terminal Pliers

Heavy duty nylon tips and vinyl covered handles insulate to 25,000 volts.

Tool No.	Overall Length	Replacement Nylon Tips
3253G	7-1/2"	253J

F. Ignition Point File

Tool No.	Overall Length
*302	5-1/4"

G. Ignition Pliers

Tool No.	Description
3204	3 Position Slip Joint, 4-9/16"
3204G	3 Position Slip Joint, 4-5/8"
3261	Groove Joint, 4-7/8"
3261G	Groove Joint, 5"

G—Plastisol dipped handles

H. No. 060D. 10 Blade Ignition Gauge Set

Ten narrow blades 1/4" wide by 1-3/4" long in holder. Includes sizes .013", .015", .017", .018", .020", .025", .030", .032", .035", .040". Blades are etched with both decimal size and metric equivalent.

I. No. 0677. Standard Spark Plug Gap Gauge Set

Spark plug electrode bender and eight bent wire gauges in sizes .022", .025", .027", .028", .030", .032", .035", .040". Each gauge marked with decimal size and metric equivalent.

J. No. 060K. High Energy Spark Plug Gap Gauge Set

For use in setting gaps on spark plugs used with high energy ignition systems. Includes blade holder, electrode bender and six bent wire gauges in sizes .035", .040", .044", .054", .060", .080". Blades marked with equivalent metric sizes.

K. No. 060J. Pocket High Energy Spark Plug Gauge

Handy "pocket size" gauge. Includes electrode bender and six bent wire gauges in sizes .035", .040", .044", .054", .060", .080".

L. No. 06BR. 5 Blade Non-Magnetic Gauge Set

Five brass blades to check gap in electronic ignition systems for all weather conditions. Blades are 1/2" wide, 3-5/16" long in sizes .004", .006", .008", .010", .012". Etched with both decimal sizes and metric equivalents.

M. No. C0675. 26 Blade Master Gauge Set (Carded)

Contains 26 short blades in sizes .0015", .002", .0025", .003", .004", .005", .006", .007", .008", .009", .010", .011", .012", .013", .014", .015", .016", .017", .018", .019", .020", .021", .022", .023", .024", .025". Each blade marked with both decimal and metric sizes.

N. No. 0670. 9 Blade Standard Gauge Set

Contains 9 short blades in sizes .002", .003", .004", .006", .008", .012", .013", .020", .025". Each blade etched with both decimal and metric size.

O. No. 7500. Magnetic Screwdriver

Includes 4 interchangeable screwdriver bits in sizes 3/16" and 1/4" standard and No. 1 and No. 2 Phillips. Extra bits store in handle.

P. Hydraulic Valve Lifter Puller (Carded)

Comes complete with instructions.

Tool No.	Minimum End Width	Overall Length
C538	1/2"	11-3/4"

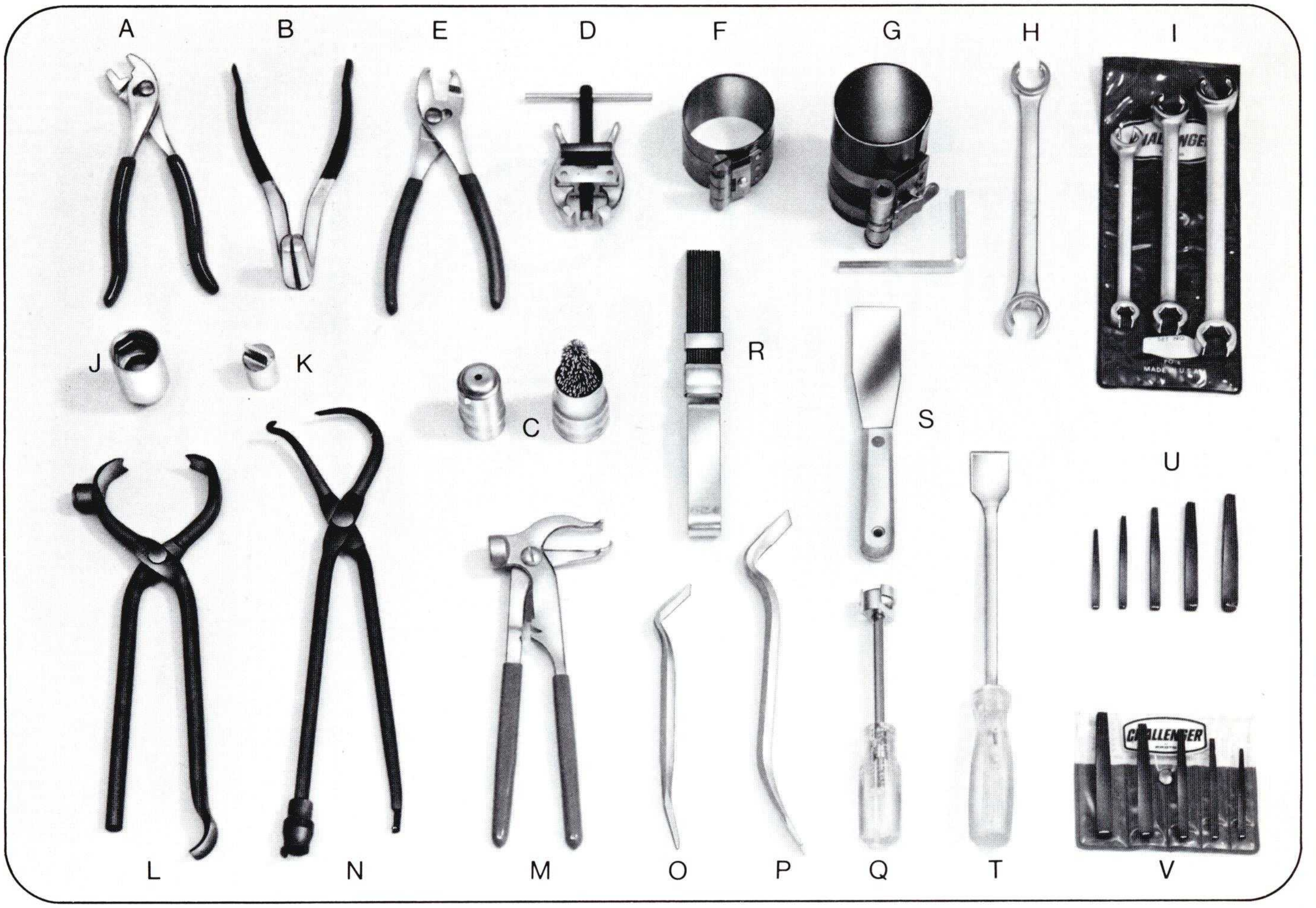
Q. Screw Starters

Tool No.	Type Tip	Overall Length
7553	Standard	5-1/2"
7555	Standard	9-1/2"
7584	Phillips	5-5/8"
7586	Phillips	9-5/8"

R. Flexible Retrieving Tool

Tool No.	Overall Length
345	21"

*Available carded. Add "C" prefix to Tool No. when ordering.



A. Battery Pliers

Two position jaws accept wide range of sizes.

Tool No.	Overall Length
3318G	8″

G—Plastisol dipped handles.

B. Battery Terminal Clamp Spreader and Reamer

Tool No.	Overall Length
3319	7-1/2″

C. Battery Terminal Clamp and Post Cleaner

Tool No.	Overall Length
320	3-3/8″

D. No. 3098. Battery Terminal Clamp Puller

E. Hose Clamp Pliers

Installs and removes wire spring tension clamps. Two position jaws grip full range of clamp sizes.

Tool No.	Overall Length
3000G	7-13/16″
3000	7-3/4″

G—Plastisol dipped handles.

F. Piston Ring Compressor

Fits cars and light trucks. Non-ratcheting.

Tool No.	Capacity	Height
231	2-1/8″ to 5″	1-3/4″

G. Piston Ring Compressor

Double band ratcheting action. Fits all cars and light trucks. Includes ell handle.

Tool No.	Capacity	Overall Length
232	2-1/8″ to 5″	3-1/2″

H. Double End Flare Nut Wrenches

Tool No.	Size	Overall Length
7064	3/8″ x 7/16″	6-1/4″
7068	1/2″ x 9/16″	7-1/2″
7072	5/8″ x 11/16″	8-3/4″

I. No. 7060. 3 Piece Flare Nut Wrench Set

Tool No.	Size
7064	3/8″ x 7/16″
7068	1/2″ x 9/16″
7072	5/8″ x 11/16″
P06	Vinyl Pouch

J. Stop Light Switch/Oil Pressure Sending Unit Socket

Tool No.	Double Socket Opening Sizes	Drive Size	Overall Length
524	1″-1-1/16″	3/8″	2″

K. Tie Rod Screwdriver Bit

Tool No.	Bit Size	Drive Size	Overall Length
1645	3/4″ x .115″	1/2″	1-1/4″

L. Hub and Grease Cap Pliers

Removes hub caps and grease caps quickly and easily.

Tool No.	Overall Length
563	12-1/4″

M. Wheel Weight Pliers

Removes, installs and trims wheel weights. Has built-in clip bender and cushion grip handles.

25K	7-1/2″

N. All Purpose Brake Spring Pliers

Tool No.	Overall Length	Replaceable Bendix Socket No.
3227	12-7/8″	2005SRK

O. Brake Adjusting Tool

Tool No.	Overall Length
3002	7-1/4″

P. Universal Brake Adjusting Tool

3001	9″

Q. Brake Shoe Retaining Spring Tool

Removes and replaces dished retaining washers on spring assemblies. Cup is notched for washers with ears and knurled for secure grip. When placed over retaining washer handle pressure depresses spring and twisting motion disengages washer.

Tool No.	Overall Length
3014	7″

R. Flexible Carbon Scraper

Excellent for removing carbon from contoured or flat surfaces. Flexibility of ten individual spring steel blades is regulated with sliding steel band.

Tool No.	Width	Overall Length
337	15/16″	8-3/4″

S. Flexible Blade Putty Knife

Tool No.	Blade Width	Overall Length
395	1-1/4″	7-1/2″

T. Gasket and Carbon Scraper

Tool No.	Blade Width	Overall Length
338	1″	11-1/2″

U. Screw Extractors

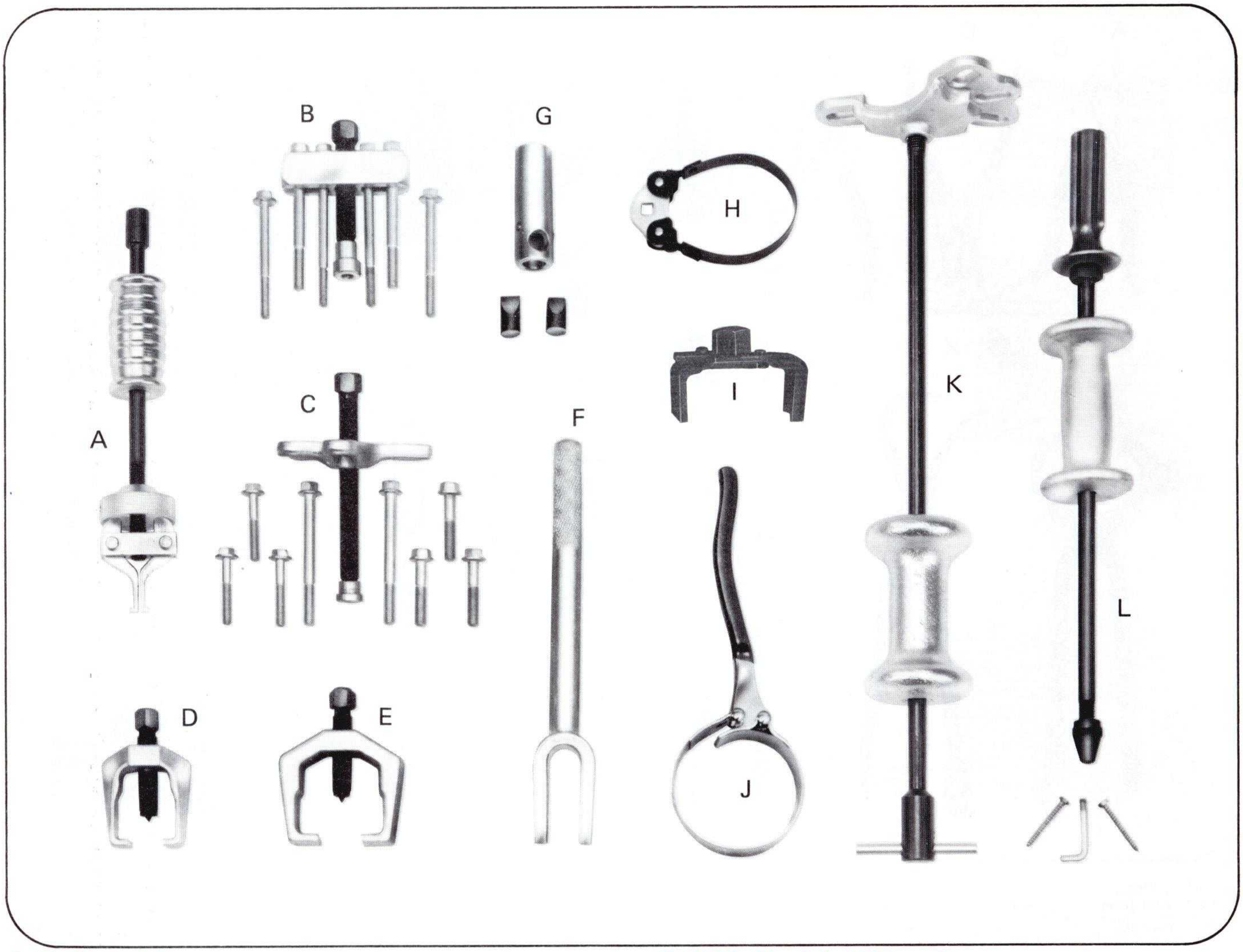
Tool No.	Drill Size	Overall Length
9720	1/8″	2-15/16″
9721	3/16″	2-5/8″
†9722	15/64″	2-7/8″
9723	5/16″	3″
9724	3/8″	3-1/4″

†For broken grease fittings.

V. No. 1976. 5 Piece Screw Extractor Set

Tool No.	Description	Drill Size
9720	Screw Extractor	1/8″
9721	Screw Extractor	3/16″
9722	Screw Extractor	15/64″
9723	Screw Extractor	5/16″
9724	Screw Extractor	3/8″
	Plastic Pouch	

AUTOMOTIVE SPECIALTY TOOLS



A. Pilot Bearing Puller

Designed for pulling applications such as removing sleeve type bearings from inside diameter of flywheels.

Tool No.	Inside Diameter Reach
80104	1/2″ to 1-1/2″

B. Steering Wheel Puller

Designed to pull steering wheels on all major make automobiles. Floating swivel on center screw has recessed end to prevent damage to spring tip horn wires connector. Includes three sets of cap screws: 3/8-16, 5/16-18 and 5/16-24, long enough to fit new style Oldsmobile steering wheel.

Tool No.	Crossarm	Center Screw
80109	1″ x 4″	5/8-18 x 4″

C. Harmonic Balancer Puller

Designed to pull balancers, vibration dampers, pulleys or gears with tapped holes. Can be used for two or three way application. Floating swivel prevents damage to shaft ends. Includes three each 3/8-24 x 2″, three each 5/16-18 x 2″ and two each 3/8-16 x 4″.

Tool No.	Reach
80102	1-3/8″ to 3-9/16″

D. No. 80107. Pitman Arm Puller for Compacts

E. No. 80108. Universal Pitman Arm Puller

F. Ball Joint Separator and Drag Link/Shock Arm Tools

Tool No.	Description	Fork Opening	Overall Length
545	Tie Rod Separator	21/32″	16″
546	Ball Joint Separator	15/16″	11-7/8″
★548	Pitman Arm Tool	1-1/8″	11-7/8″

G. Stud Setter and Remover

Superior to eccentric roller type stud remover. Small turning radius clears obstructions. Tapered, serrated wedges grip tighter. Two different size wedges increase usable range and are held in body by spring tension pin when not in use.

Tool No.	Drive Size	Stud Dia.	Repl. Thin Wedge No.	Repl. Thick Wedge No.
515	1/2″	1/4″ to 5/8″	4517	4516

H. Oil Filter Wrench for Sub-Compacts

Tool No.	Drive Size	Fractional Range	Metric Range
3004	3/8″	2-7/8″ to 3-3/8″	73mm to 86mm

I. Oil Filter Wrench

Removes most domestic and foreign disposable oil filters. Sliding action is self-adjusting and self-locking. Black oxide finish.

Tool No.	Filter Size Range	Female Square Drive Size	Male Hex Drive Size
3003	3-3/8″ to 3-3/4″	1/2″	1″

J. Oil Filter Wrench

Deluxe heavy-duty wrench fits most auto and light truck oil filters. Rugged steel construction. Comfortable vinyl-dipped handle.

Tool No.	Maximum Inside Diameter	Band Width	Handle Length
3005	3-7/8″	1-1/4″	8″

K. Flanged Axle Puller

Designed to pull flanged axles on all major make cars and light trucks. Flange adapter allows use on four, five or six stud and bolt designs.

Tool No.	Bolt Circle Diameter Range
80103	4-1/2″ to 5-1/2″

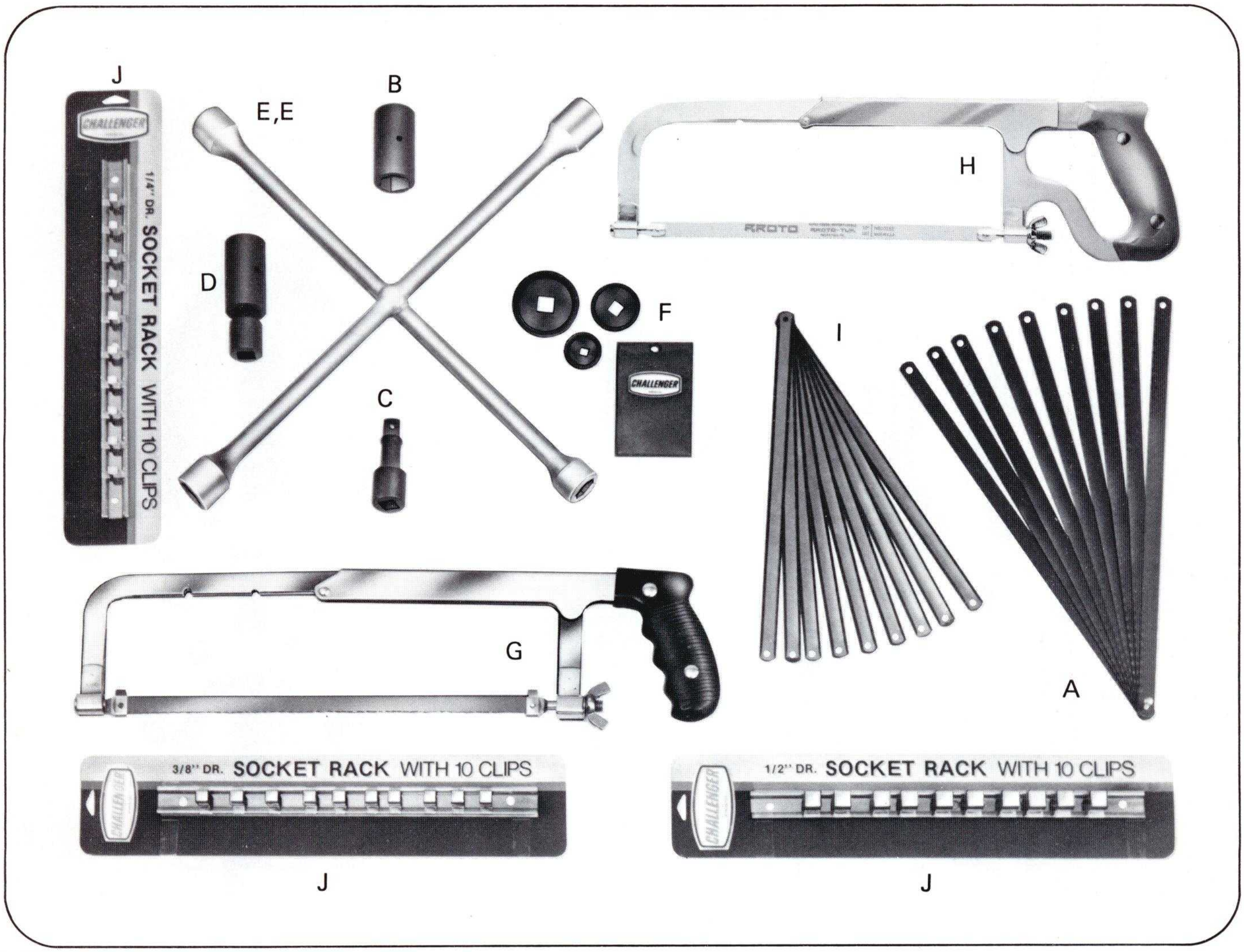
I Body Dent Puller

Quickly and easily pulls dents out of sheet metal from front side.

Tool No.	Shaft Thread Size
3099	1/2-13

★New Item!

HACKSAWS, LUG WRENCHES & MISCELLANEOUS


J
CHALLENGER
1/4" DR. SOCKET RACK WITH 10 CLIPS
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3/8" DR. SOCKET RACK WITH 10 CLIPS
CHALLENGER
J
1/2" DR. SOCKET RACK WITH 10 CLIPS
CHALLENGER
J

A. Hacksaw Blades, 10 Pack

Tough, flexible alloy steel. Heat treated to resist breakage and teeth strippage.

Tool No.	Teeth per Inch	Blade Length
7230	24	12″

B. Wheel Lug Double-End Power Socket, 6 Point

Designed for removing and installing auto and light truck wheels. Has 3/4″ opening on one end, 13/16″ on the other with 1/2″ square female drive in the center.

Tool No.	Socket Openings	Female Drive Size
7401	3/4″ x 13/16″	1/2″

C. Power Extension for Wheel Work

Permits use of No. 7401 double-end socket with 1/2″ drive impact wrenches that do not have extended anvils.

Tool No.	Drive Size	Overall Length
7182P	1/2″	2-11/16″

D. No. 7402W. Wheel Lug Power Socket and Extension Set

Contains one each:

Tool No.	Description	Size
7401	Double-End Socket	3/4″ x 13/16″
7182P	Power Extension	2-11/16″

E. Lug Nut Wrenches—Hex Openings

Tool No.	Opening Sizes	Overall Length
9414M	17mm, 19mm, 22mm, 13/16″	14″
9420	3/4″ (19mm), 13/16″, 7/8″, 15/16″	20″

F. No. 1061. 3 Piece Ratchet Spinner Set

Slips over square male drive plug of reversible ratchet. Fits flush against underside of ratchet head and is held in place by drive plug ball check. Does not interfere with socket engagement onto ratchet drive plug. Allows quick "finger-tight" run down of fasteners. Ideal for working in tight places where ratchet action is limited.

Contains one each:

Description	For Ratchet Drive Size
Ratchet Spinner	1/4″
Ratchet Spinner	3/8″
Ratchet Spinner	1/2″
Vinyl Pouch	

G. Deluxe Adjustable Hacksaw Frame

Rigid flat frame. Comfortable pistol grip handle. Accepts 8″, 10″ or 12″ blades that can be adjusted to cut at four different angles: Up, down, right or left. Furnished with blade.

Tool No.	Depth	Frame Stock
7229	3-1/2″	3/16″ x 11/16″

H. Heavy Duty Adjustable Hacksaw Frame

Heavy duty steel frame has comfortable, durable plastic grips. Blade can be adjusted with teeth up, down, right or left. Accepts 8″ 10″ or 12″ blade. Comes with 10″ blade.

Tool No.	Depth	Frame Stock
★7226	3-1/2″	3/16″ x 11/16″

I. Economy Hacksaw Blades, 10 Pack

Tool No.	Teeth per Inch	Blade Length	Package
7228	24	10″	10

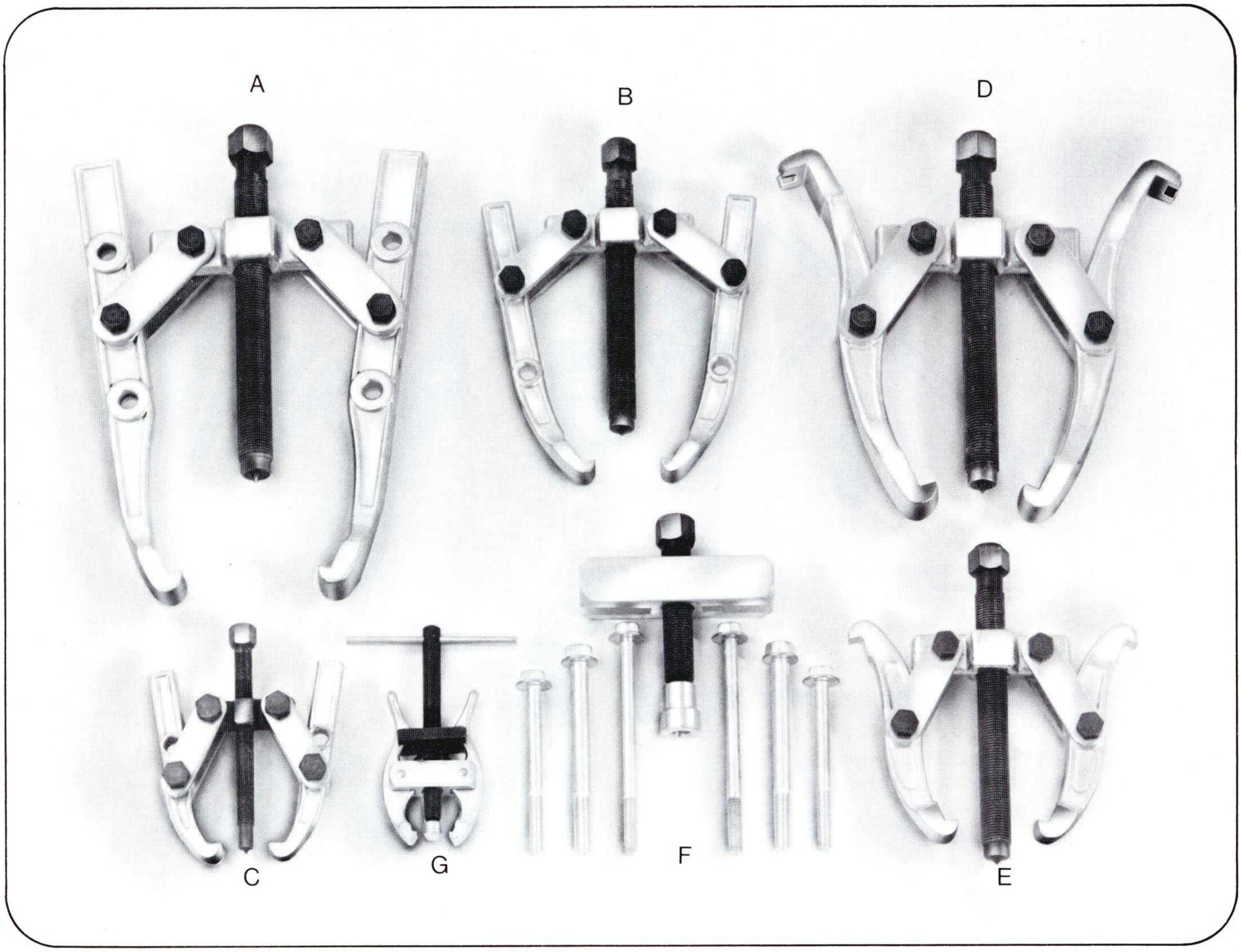
J. Socket Racks with Clips (Carded)

Provides a handy, space-saving way to organize and store loose sockets. Socket racks are drilled at each end for attachment to wall, work bench or tool chest. Spring clips hold drive ends of sockets securely but allow easy removal and replacement.

Tool No.	Socket Drive Size	Quantity of Clips	Overall Length
C590	1/4″	10	11″
C591	3/8″	10	11″
C592	1/2″	10	11″

★New Item!

TWO JAW PULLERS



A. **No. 80210.** Two-Jaw Adjustable Gear Puller, 10″

A rugged heavy duty puller of heat treated alloy steel construction to handle the most difficult pulling applications. Forcing screw features large hex head and buttress thread for extra pulling power. Three position jaws offer maximum reach and utility. Angled jaw ends are designed for positive non-slip grip. Reach: 9″. Spread: 0″-10″. Forcing Screw: 3/4″-16x8-3/4″.

Parts for No. 80210:

No.	Description
80208-1	Yoke
80208-2	Forcing Screw
80208-3	Link
80208-4	Bolt
80208-6	Nut
80210-5	Jaw

B. **No. 80207.** Two-Jaw Adjustable Gear Puller, 7″

Designed to handle a wide variety of mid-range pulling applications. Adjustable two-position jaws offer extended reach and utility and are designed for positive grip on part being removed. Hardened forcing screw has power transmitting buttress thread and hex head. Entire tool is constructed of hardened alloy steel with drop forged yoke and jaws: Reach: 5-1/2″. Spread: 0″-7″. Forcing Screw: 5/8″-18x6-7″8″.

Parts for No. 80207:

No.	Description
80206-1	Yoke
80206-2	Forcing Screw
80206-3	Link
80207-5	Jaw
80304-4	Bolt
80304-6	Nut

C. **No. 80204.** Two-Jaw Adjustable Gear Puller, 4″

A small, but ruggedly constructed gear puller ideally suited to pulling bearings and gears from generators, magnetos and electric motors. Adjustable two-position jaws extend reach and versatility. Jaw ends are curved inward for more positive grip on part being removed. Hardened forcing screw has buttress thread for extra pulling power and hex head for turning with wrench or socket. Heat treated alloy steel construction. Reach: 3-1/2″. Spread: 0″-4″. Forcing Screw: 3/8″-24x4-3/4″.

Parts for No. 80204:

No.	Description
80204-1	Yoke
80304-2	Forcing Screw
80304-3	Link
80304-4	Bolt
80304-5	Jaw
80304-6	Nut

D. **No. 80208.** Two-Jaw Reversible Gear Puller, 8″

Designed for heavy duty automotive and industrial pulling applications. Heat treated alloy steel and drop forged yoke and jaws assure maximum strength and long life. Hardened forcing screw features large hex head and buttress thread for increased power. Versatile reversible jaws are slotted on one end for cap screw pulling of gears and pulleys with tapped holes. (Can be used with No. 80101 Bearing Separator pictured in upper left hand corner of page 38.) Reach: 5-1/2″. Spread: 0″-8″. Forcing Screw: 3/4″-16x8-3/4″.

Parts for No. 80208:

No.	Description
80208-1	Yoke
80208-2	Forcing Screw
80208-3	Link
80208-4	Bolt
80208-5	Jaw
80208-6	Nut

E. **No. 80206.** Two-Jaw Reversible Gear Puller, 6″

A rugged, versatile puller designed to perform a variety of medium duty bearing and gear pulling jobs. Jaws have wide pulling face on one end and narrow pulling face on the other for maximum utility. Jaws are fully reversible and are drop forged from alloy steel and heat treated for maximum strength. Hardened forcing screw has hex head and buttress thread. (Can be used with No. 80100 Bearing Separator pictured on page 38.) Reach: 3-1/2″. Spread: 0″-6″. Forcing Screw: 5/8″-18x6-7/8″.

No.	Description
80206-1	Yoke
80206-2	Forcing Screw
80206-3	Link
80206-5	Jaw
80304-4	Bolt
80304-6	Nut

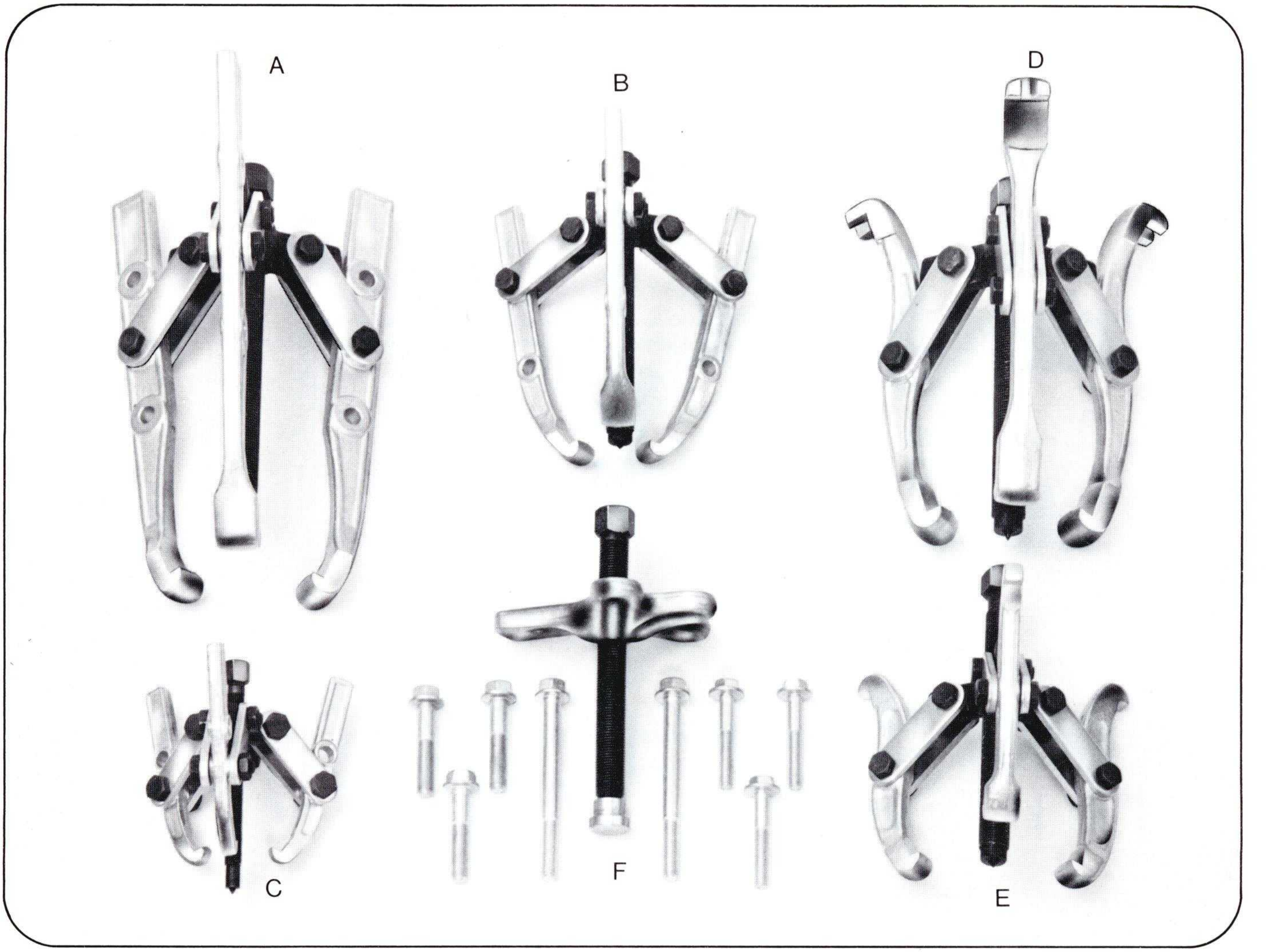
F. **No. 80109.** Steering Wheel Puller

Designed to pull steering wheels on all major automobiles. Floating swivel on end of forcing screw is recessed to prevent damage to horn wires spring tip connection. Includes three pairs of cap screws long enough to fit new style Oldsmobile steering wheel: 5/16″-24x3-1/2″, 5/16″-18x4-1/2″ and 3/8″-16x4″. Crossarm: 1″x4″. Forcing Screw: 5/8″-18x4″.

No.	Description
80109-1	Cross Arm
80109-2	Forcing Screw
80109-3	Swivel and Spring
80109-4	Cap Screw (5/16-18x4-1/2″)
80109-5	Cap Screw (5/16-24x3-1/2″)
80109-6	Cap Screw (3/8″-16x4″)

G. **No. 3098.** Battery Terminal/Generator Bearing Puller

Jaws designed to engage either below or on the sides of battery terminal clamps. Lifts tight, corroded terminal clamps quickly and easily without damage to battery case or posts. Doubles as a generator bearing and magneto gear puller. Spread: 5/8″ to 1-3/8″.



A. No. 80310. Three-Jaw Adjustable Gear Puller, 10″

A rugged heavy duty puller. Large hex head and buttress thread provide the power needed for the toughest pulling jobs. Triple jaws provide a positive non-slip three point grip on part to be pulled. Adjustable three position jaws offer increased reach and utility. Reach: 9″. Spread: 0″-10″. Forcing Screw: 3/4″-16x8-3/4″.

Parts for No. 80310:

No.	Description
80208-2	Forcing Screw
80208-3	Link
80208-4	Bolt
80208-6	Nut
80210-5	Jaw
80308-1	Yoke

B. No. 80307. Three-Jaw Adjustable Gear Puller, 7″

Heat treated alloy steel provides the strength needed for the toughest pulling applications. Forcing screw has buttress thread for extra pulling power. Triple jaw design provides positive three point grip on part to be pulled. Two position jaws extend reach and versatility. Reach: 5-1/2″. Spread: 0″-7″. Forcing Screw: 5/8″-18x6-7/8″.

Parts for No. 80307:

No.	Description
80206-2	Forcing Screw
80206-3	Link
80207-5	Jaw
80304-4	Bolt
80304-6	Nut
80306-1	Yoke

C. No. 80304. Three-Jaw Adjustable Gear Puller, 4″

A small, but rugged puller that is ideally suited to pulling gears and bearings from magnetos, generators and electric motors. Two position jaws offer extended reach and versatility. Triple jaw design provides positive three point positioning and grip on part to be removed. Heat treated alloy steel assures durability and long life and provides strength needed for tough pulling applications. Reach: 3-1/2″. Spread: 0″-4″. Forcing Screw: 3/8″-24x4-3/4″.

Parts for No. 80304:

No.	Description
80304-1	Yoke
80304-2	Forcing Screw
80304-3	Link
80304-4	Bolt
80304-5	Jaw
80304-6	Nut

D. No. 80308. Three-Jaw Reversible Gear Puller, 8″

Manufactured from alloy steel and heat treated for maximum strength and toughness required for difficult pulling applications. The triple jaw design provides a stable positive grip on part to be pulled. Heavy duty forcing screw has large hex head and buttress thread for maximum pulling power. Reversible jaws are slotted on one end for cap screw pulling or gears and pulleys with tapped holes. Reach: 5-1/2″. Spread: 0″-8″. Forcing Screw: 3/4″-16x8-3/4″.

Parts for No. 80308:

No.	Description
80208-2	Forcing Screw
80208-3	Link
80208-4	Bolt
80208-5	Jaw
80208-6	Nut
80308-1	Yoke

E. No. 80306. Three-Jaw Reversible Gear Puller, 6″

The triple jaw design provides the stable positive three point grip required for the efficient removal of stubborn parts. Heat treated alloy steel construction assures maximum strength and toughness when needed. Puller is fitted with a hardened forcing screw that features hex head and buttress thread for extra pulling power. Reversible jaws have wide face on one end, narrow face on the other for added versatility. Reach: 3-1/2″. Spread: 0″-6″. Forcing Screw: 5/8″-18x6-7/8″.

Parts for No. 80306:

No.	Description
80206-2	Forcing Screw
80206-3	Link
80206-5	Jaw
80304-4	Bolt
80304-6	Nut
80306-1	Yoke

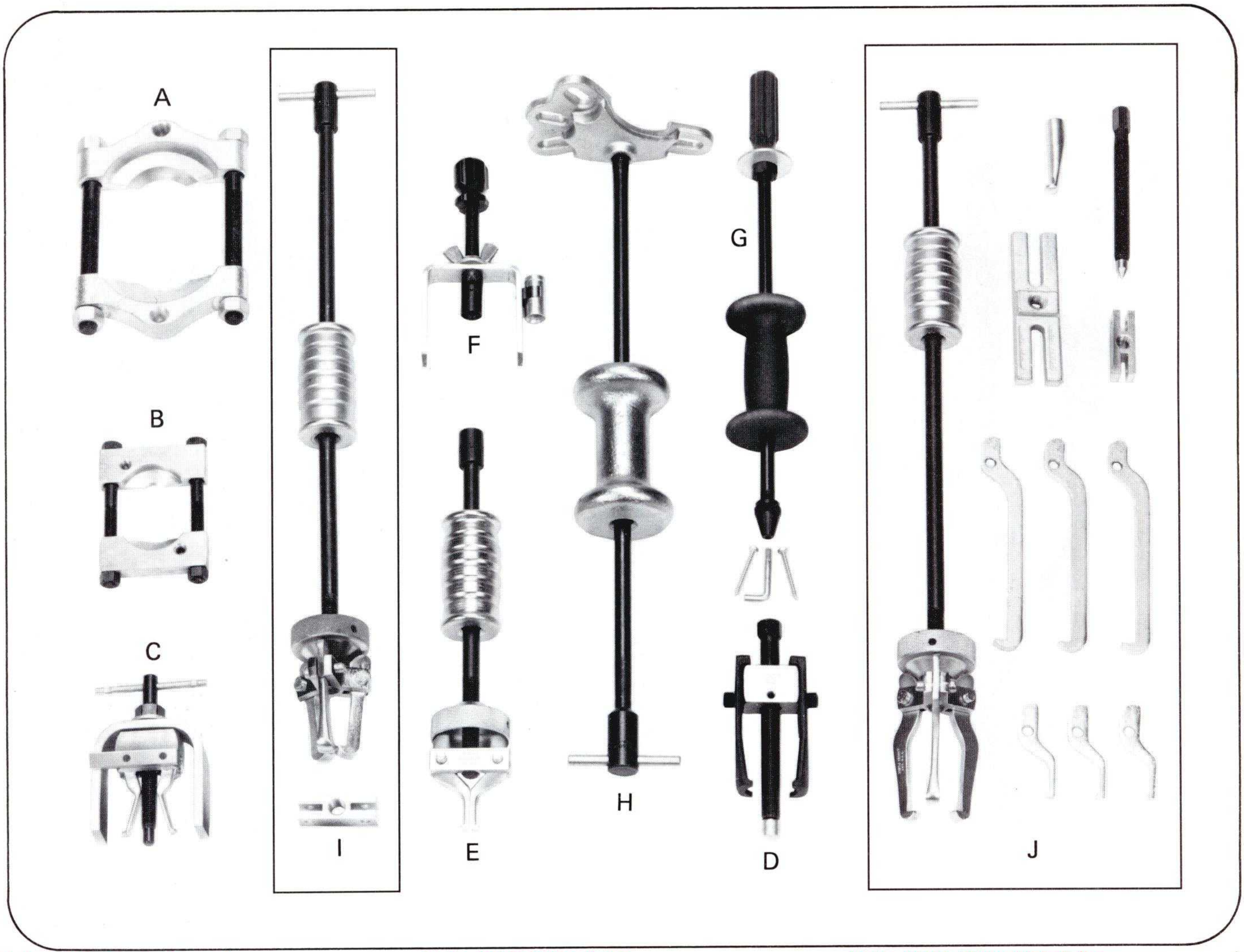
F. No. 80102. Harmonic Balancer Puller

Designed to pull harmonic balancers, vibration dampers and pulleys and gears with tapped holes. The versatile four slot yoke provides use for either two-way or three-way pulling applications. Puller is fitted with a hardened forcing screw that features a hex head on one end and a floating swivel on the other that prevents damage to shaft ends. Comes complete with the following cap screws: Three each 3/8″-24x2″, three each 5/16″-18x2″ and two each 3/8″-16x4″.

Parts for No. 80102:

No.	Description
80102-1	Yoke
80102-2	Forcing Screw
80102-3	Swivel and Spring
80102-4	Cap Screw (5/16″-18x2″)
80102-5	Cap Screw (3/8″-24x2″)
80109-6	Cap Screw (3/8″-16x4″)

SPECIAL APPLICATION PULLERS



A. **No. 80101.** Bearing Separator

Can be used with gear and bearing pullers or on hydraulic press bed plate. Capacity: 0″ to 4-1/4″.

Parts for No. 80101:

Tool No.	Description
80101-1	Body (Both Halves)
80101-2	Bolt
80101-3	Nut

B. **No. 80100.** Small Bearing Separator

Designed for use with manual gear pullers to remove generator bearings, bearing cones and similar small parts.

Parts for No. 80100:

Tool No.	Description
80100-1	Body (Both Halves)
80100-2	Bolt
80100-3	Nut

C. **No. 80106.** Bearing Puller

Designed to pull flywheel pilot bearings with inside diameters 1/2″ to 1-1/2″. Ideal for removing bearings and bushings from starters, generators, magnetos and electric motors.

†Parts for No. 80106:

Tool No.	Description
80106-1	Yoke
80106-2	Body
80106-3	Forcing Screw Assembly
80106-4	Retaining Bar
80106-5	Jaw Screw
80106-6	Standard Jaw
80106-7	Pressure Nut
80106-8	Washer

†For small bearings with inside diameters 3/8″ to 1-3/8″ order No. 80106-6A jaws.

D. **No. 80105.** Pulley Puller

Designed to remove one or two groove pulleys from alternators and power steering pumps. Two position yoke permits pulling bearings from both regular and new larger alternators.

Parts for No. 80105:

Tool No.	Description
80105-1	Yoke
80105-2	Forcing Screw
80105-3	Swivel and Spring
80105-4	Jaw
80105-5	Lock Screw

E. **No. 80104.** Pilot Bearing Puller

Designed to remove sleeve type bearings with inside diameters 1/2″ to 1-1/2″ from flywheels, pumps and generators.

Parts for No. 80104:

Tool No.	Description
4056N	Reversible Adjusting Nut
4056PN	Jaw Assembly Pin
4056RS	Rod, 12-3/8″
4058J	Inside Jaw
4061	Two Jaw Yoke
4260H	Hammer

F. **No. 3097.** Steering Wheel Lock Plate Remover

Removes and installs lock plates on GM, AMC and Chrysler conventional and tilt steering wheels. Interchangeable threaded collars adapt to 9/16-18 and 14mm threads.

G. **No. 3099.** Body Dent Puller

Removes dents in sheet metal panels from front side.

Parts for No. 3099:

Tool No.	Description
3099-1	Complete Rod Assembly
3099-2	Chuck
3099-3	Sheet Metal Screw
3099-4	Hammer
3099-5	Hook

H. **No. 80103.** Flanged Axle Puller

Designed to pull flanged rear axles with four, five or six studs in 4-1/2″ to 5-1/2″ diameter circles.

Parts for No. 80103:

Tool No.	Description
4055B	Four Slot Adapter
4055H	Hammer
4055R	T-Handle Rod, 25″

I. **No. 80230.** Universal Slide Hammer Puller

Comes with two jaw and three jaw yokes. Reversible jaws and adjusting nut permit both inside and outside pulling.

Parts for No. 80230:

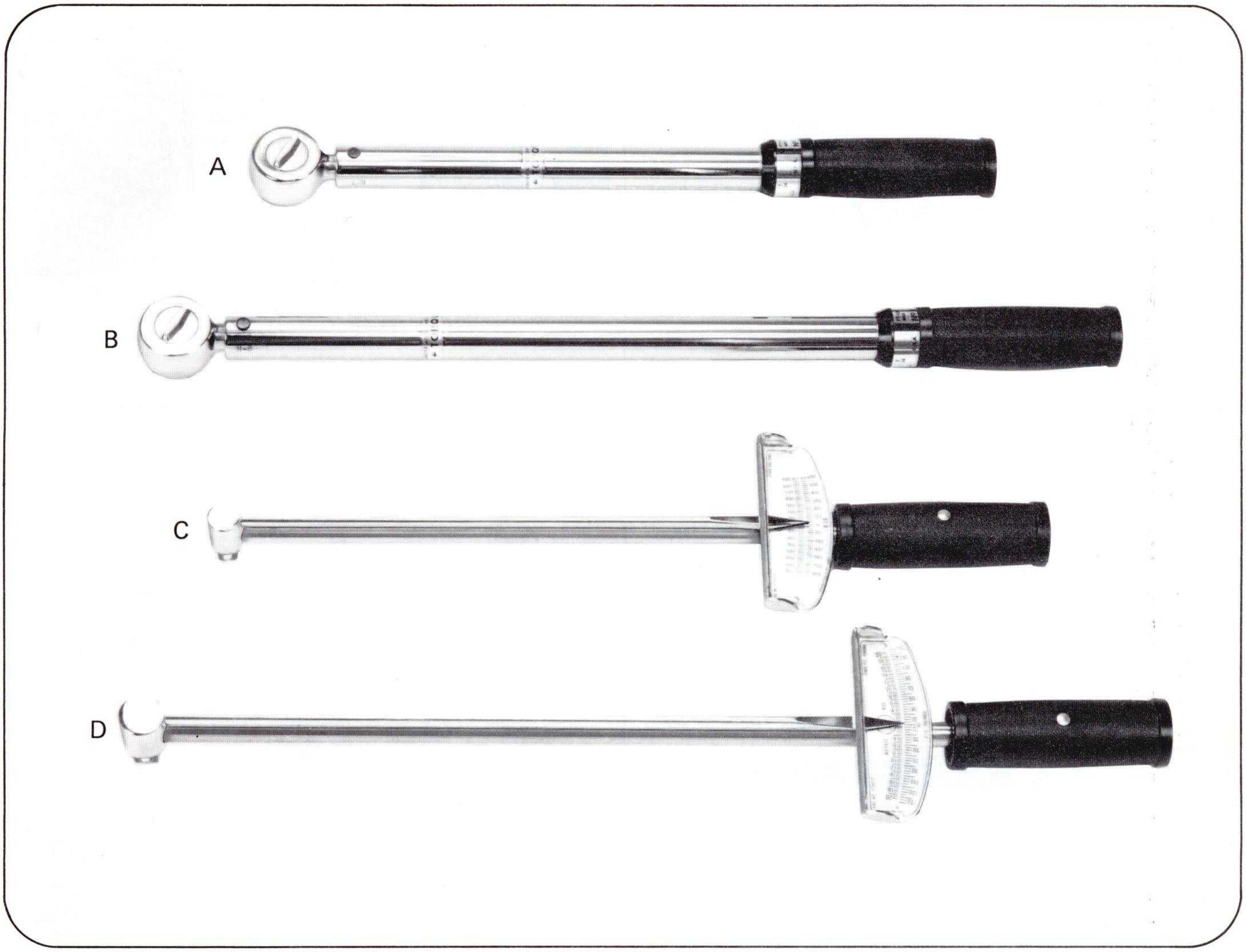
Tool No.	Description
4056J	Reversible Jaw
4056N	Reversible Adjusting Nut
4056PN	Jaw Assembly Pin
4056R	T-Handle Rod, 24″
4061	Two Jaw Yoke
4071	Three Jaw Yoke
4260H	Hammer

J. **No. 80231.** Master Slide Hammer Puller

Includes 24″ T-handle threaded rod and slide hammer plus two jaw yoke, three jaw yoke, slotted cross arm for cap screw pulling, short forcing screw for light duty puller assembly, reversible adjusting nut, three sets of jaws and single jaw.

Parts for No. 80231:

Tool No.	Description
4022	Forcing Screw, 6-5/16″
4022TS	Tip for 4022
4056C	Slotted Cross Arm
4056N	Reversible Adjusting Nut
4056PN	Jaw Assembly Pin
4056R	T-Handle Rod, 24″
4056S	Single Jaw
4057J	Long Reversible Jaw
4058J	Inside Jaw
4061	Two Jaw Yoke
4067	Outside Jaw
4071	Three Jaw Yoke
4260H	Hammer



MICROMETER ADJUSTABLE TORQUE WRENCHES

Challenger micrometer adjustable torque wrenches are fast, accurate and easy to use. Simply pull the handle to the rear to expose the micrometer type vernier scale. Set the desired torque, then lock by pushing the handle forward. The wrench is now ready to use. Apply it to the selected fastener and pull up to the required torque without hesitation. When the exact preset torque is reached the wrench signals clearly and unmistakably, both by sound and feel impulse. Release the handle pressure and the wrench resets automatically to the same exact torque setting, making it ideal for repetitive torquing operations. Challenger's rugged construction and fully enclosed parts assure long, trouble-free service, even under adverse conditions. Challenger micrometer adjustable torque wrenches can be used in the dark, in "blind" spots, on vibrating machinery—even under water or oil, if necessary. They torque in both right and left hand directions and meet or exceed government accuracy specifications. Wrenches have precision ratchet heads and easy-to-read vernier scale with both English and metric torque values.

A. Micrometer Adjustable Torque Wrench—100 Ft. Lbs.

Tool No.	Torque Range English	Torque Range Metric	Drive Size	Head Style	Overall Length
9713	10-100 Ft. Lbs.	1.73-13.47 mkg	3/8"	Ratchet	15-1/2"

B. Micrometer Adjustable Torque Wrench—250 Ft. Lbs.

Tool No.	Torque Range English	Torque Range Metric	Drive Size	Head Style	Overall Length
9711	30-250 Ft. Lbs.	4.9-33.9 mkg	1/2"	Ratchet	19-1/2"

DEFLECTING BEAM TORQUE WRENCHES

Challenger deflecting beam torque wrenches handle all normal torque requirements. They can be used for both right and left hand torquing applications and are equally accurate in either direction with accuracy that meets or exceeds government specifications. Rugged construction assures years of reliable service. Head and beam are inertia welded into a single unit for a wrench that is superior in strength and accuracy to wrenches using a press fit. Challenger deflecting beam torque wrenches have the smallest diameter head in the industry and feature a dual reading English/metric scale and pivotal handle. They are accurate, dependable, easy to use, read and calibrate.

C. Deflecting Beam Torque Wrench—600 In. Lbs.

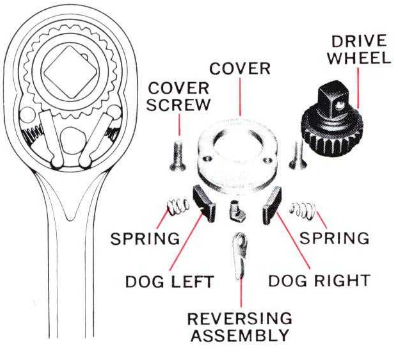
Tool No.	Torque Range English	Torque Range Metric	Drive Size	Head Style	Overall Length
*9710	0-600 In. Lbs.	0-700 cmkg	3/8"	Fixed	16"

D. Deflecting Beam Torque Wrench—150 Ft. Lbs.

Tool No.	Torque Range English	Torque Range Metric	Drive Size	Head Style	Overall Length
*9709	0-150 Ft. Lbs.	0-20 mkg	1/2"	Fixed	19"

*Available carded. Add "C" prefix to Tool No. when ordering.

REPLACEMENT PARTS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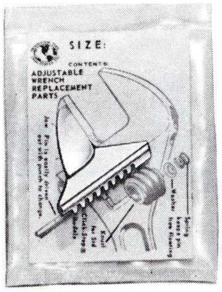
COVER
COVER SCREW
SPRING
SPRING
DOG LEFT
DOG RIGHT
REVERSING ASSEMBLY

A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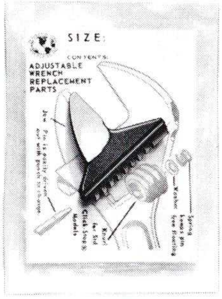
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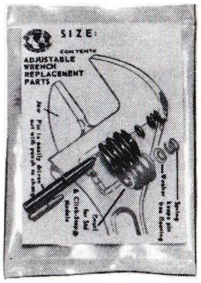
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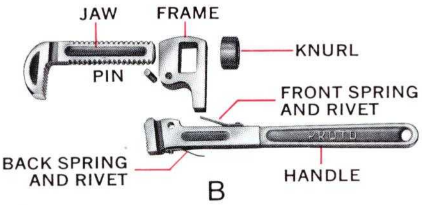
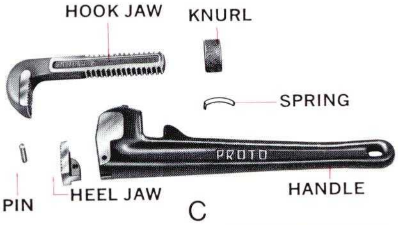
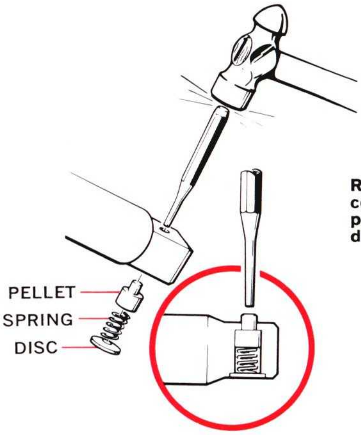

JAW
FRAME
KNURL
PIN
FRONT SPRING AND RIVET
BACK SPRING AND RIVET
HANDLE
PROTO

B


HOOK JAW
KNURL
SPRING
PROTO
PIN
HEEL JAW
HANDLE

C


PELLET
SPRING
DISC

Repair Kits contain one each pellet, spring and disc in plastic bag.

G

A. 3/4″ Drive Ratchet Parts

Ratchet No.	Drive Size	Cover	Dog Left	Dog Right	Cover Screw	Reversing Assembly	Spring	Drive Wheel
1861	3/4″	5649C	5649DL	5649DR	5649H	5649R	5649S	5649W

Ratchet Repair Kits

Ratchet No.	Drive Size	Repair Kit No.	Ratchet No.	Drive Size	Repair Kit No.	Ratchet No.	Drive Size	Repair Kit No.
1060	1/4″	1060RK	1262	3/8″	1260RK	1662	1/2″	1660RK
1260	3/8″	1260RK	1262-2	3/8″	1262-2P	1861 (Round Head)	3/4″	1861-1P
1260-2	3/8″	1260-2P	1262-3	3/8″	1260RK	1861 (Oval Head)	3/4″	1861RK
1260-3	3/8″	1260RK	1262-4	3/8″	1260RK			
1260-4	3/8″	1260RK	1660-3	1/2″	1660RK			

B. Stillson Pattern Pipe Wrench Parts

Wrench No.	Handle & Springs	Jaw	Knurl	Pin	Frame & Pin	Front Spring & Rivet	Back Spring & Rivet
4108	808H	808J	808K	808P	808PF	808SF	—
4110	810H	810J	810K	810P	810PF	810SF	810SB
4114	814H	814J	814K	814P	814PF	814SF	814SB
4118	818H	818J	818K	818P	818PF	818SF	818SB

C. Forged Steel Heavy Duty Pipe Wrench Parts

Wrench No.	Handle, Heel Jaw & Pin Assembly	Hook Jaw	Heel Jaw & Pin	Knurl	Spring
806HD-FGD	806FH	806B	806C	806D	806SF1
808HD-FGD	808FH	808B	808C	808D	808SF1
810HD-FGD	810FH	810B	810C	810D	810SF1
814HD-FGD	814FH	814B	814C	814D	812SF1
818HD-FGD	818FH	818B	818C	818D	818SF1

Adjustable Wrench Repair Kits

D. Plated Jaws

Wrench No.	Kit No.
4004, 4004G, 4004L, 4004LG	4JP
4006, 4006G, 4006L, 4006LG	6JP
4008, 4008G, 4008L, 4008LG	8JP
4010, 4010G, 4010L, 4010LG	10JP
4012, 4012G, 4012L, 4012LG	12JP
4015, 4015L	715JP

E. Polished Jaws

Wrench No.	Kit No.
4204, 4204L	4J
4206, 4206L	6J
4208, 4208L	8J
4210, 4210L	10J
4212, 4212L	12J
4215, 4215L	715J
4218, 4218L	718J

F. Knurl, Pin, Washer and Spring Kit

Wrench No.	Kit No.
4004, 4004G, 4004L, 4004LG, 4204, 4204L	4KK
4006, 4006G, 4006L, 4006LG, 4206, 4206L	6KK
4008, 4008G, 4008L, 4008LG, 4208, 4208L	8KK
4010, 4010G, 4010L, 4010LG, 4210, 4210L	10KK
4012, 4012G, 4012L, 4012LG, 4212, 4212L	12KK
4015, 4015L, 4215, 4215L	★15KK
4018, 4018L, 4218, 4218L	★18KK

G. Pellet, Spring and Disc Repair Kits for Male Drive Power Attachments

Kit No.	Drive Size	Kit No.	Drive Size
7100 1/4RK	1/4″	7100 1/2RK	1/2″
7100 3/8RK	3/8″	7100 5/8RK	5/8″

Hacksaw Parts

Hacksaw No.	Front Blade Holder	Rear Blade Holder	Wing Nut	Washer
7229	HF 10R	HF 100	HN 100	HF 100W

★New Item!

SAFETY RULES FOR HAND TOOL USE

- Always use the right size and type of tool for the job being done. Keep tools in proper working condition. Never alter a tool from its original condition.
- Protect your eyes. Always wear safety goggles when using tools; particularly when using punches, chisels, hammers, power tool attachments and cutting tools.
- Ordinary plastic dipped handles are designed for comfort—not electrical insulation.
- Never use a tool as a hammer unless manufactured for that purpose.
- When possible, always pull on a wrench handle rather than push and adjust your stance to prevent a fall.
- Never use a pipe extension or other form of "cheater" to increase the leverage of any wrench. Never use a hammer on any wrench, other than a striking face wrench that is designed to be struck.
- Adjustable wrenches should be tightly adjusted to the nut and pulled so that the force is on the side of the fixed jaw.
- Never use a pipe wrench to bend, raise or lift a pipe.
- Chrome finished hand sockets and attachments should not be used on power tools. Black oxide finished sockets and attachments are designed for use on electric and air powered driving tools and may also be used for hand operation.
- Select a wrench or socket whose opening exactly fits the nut. Always seat the wrench or socket straight on the nut—do not 'cock' the tool when turning.
- Use the correct drive size handles and attachments with sockets.
- Ratchet mechanisms should be cleaned and lubricated periodically with light grade oil.
- Pliers should not be used for cutting hardened wire unless manufactured for that purpose. Always cut at right angles—don't rock from side to side when cutting.
- Always strike squarely with the hammer striking face parallel to the surface being struck. Avoid glancing blows and over and under strikes. Never strike an object with the side of a hammer. Do not strike one hammer with another hammer.
- Keep hammer heads tight on the handle. Never use a hammer with a loose or damaged handle.
- Metal cutting chisels are intended for cutting, shaping and removing metal softer than the cutting edge itself. Never use these tools for cutting or splitting stone or concrete.
- Always strike the struck face of a chisel or punch squarely. The striking face of the hammer should have a diameter approximately 3/8" larger than the struck face of the punch or chisel.
- Never use a chisel or punch with a dull, chipped, deformed cutting edge or point or mushroomed struck face.
- Use the right type of screwdriver with the right tip for the screw. Make sure the tip fits the screw slot, not too loose and not too tight.
- Never use screwdrivers with rounded edges or tips.
- Never use a screwdriver as a chisel, punch, scraper or pry bar. Use screwdrivers for screw driving only.
- Do not use screwdrivers with split or broken handles.
- Do not heat jaws of pullers when heating bearings or gears, as heating can change their temper. Do not use pullers with worn or damaged parts.
- Puller forcing screws should be kept clean and lubricated with medium grade oil. Puller should not be 'cocked' at an angle when in use.
- When using slide hammer pullers, be sure hands are well away from hammer on the back end of the slide rod.
- Ingersoll-Rand Company cannot be responsible for injury or damage caused by tools improperly used, or from tools which have been abused or badly worn.

DECIMAL EQUIVALENTS *fractional inches into decimal inches*

FRACTIONS	DECIMALS	FRACTIONS	DECIMALS
1/64	.0156	33/64	.5156
1/32	.0312	17/32	.5312
3/64	.0468	35/64	.5468
1/16	.0625	9/16	.5625
5/64	.0781	37/64	.5781
3/32	.0937	19/32	.5937
7/64	.1093	39/64	.6093
1/8	.1250	5/8	.6250
9/64	.1406	41/64	.6406
5/32	.1562	21/32	.6562
11/64	.1718	43/64	.6718
3/16	.1875	11/16	.6875
13/64	.2031	45/64	.7031
7/32	.2187	23/32	.7187
15/64	.2343	47/64	.7343
1/4	.2500	3/4	.7500
17/64	.2656	49/64	.7656
9/32	.2812	25/32	.7812
19/64	.2968	51/64	.7968
5/16	.3125	13/16	.8125
21/64	.3281	53/64	.8281
11/32	.3437	27/32	.8437
23/64	.3593	55/64	.8593
3/8	.3750	7/8	.8750
25/64	.3906	57/64	.8906
13/32	.4062	29/32	.9062
27/64	.4218	59/64	.9218
7/16	.4375	15/16	.9375
29/64	.4531	61/64	.9531
15/32	.4687	31/32	.9687
31/64	.4843	63/64	.9843
1/2	.5000	1	1.0000

METRIC CONVERSION CHART

CONVERSION FROM FRACTIONAL INCHES TO MILLIMETERS

inch		mm	inch		mm
1/64	0.015 625	0.396 875	33/64	0.515 625	13.096 875
1/32	0.031 250	0.793 750	17/32	0.531 250	13.493 750
3/64	0.046 875	1.190 625	35/64	0.546 875	13.890 625
1/16	0.062 500	1.587 500	9/16	0.562 500	14.287 500
5/64	0.078 125	1.984 375	37/64	0.578 125	14.684 375
3/32	0.093 750	2.381 250	19/32	0.593 750	15.081 250
7/64	0.109 375	2.778 125	39/64	0.609 375	15.478 125
1/8	0.125 000	3.175 000	5/8	0.625 000	15.875 000
9/64	0.140 625	3.571 875	41/64	0.640 625	16.271 875
5/32	0.156 250	3.968 750	21/32	0.656 250	16.668 750
11/64	0.171 875	4.365 625	43/64	0.671 875	17.065 625
3/16	0.187 500	4.762 500	11/16	0.687 500	17.462 500
13/64	0.203 125	5.159 375	45/64	0.703 125	17.859 375
7/32	0.218 750	5.556 250	23/32	0.718 750	18.256 250
15/64	0.234 375	5.953 125	47/64	0.734 375	18.653 125
1/4	0.250 000	6.350 000	3/4	0.750 000	19.050 000
17/64	0.265 625	6.746 875	49/64	0.765 625	19.446 875
9/32	0.281 250	7.143 750	25/32	0.781 250	19.843 750
19/64	0.296 875	7.540 625	51/64	0.796 875	20.240 625
5/16	0.312 500	7.937 500	13/16	0.812 500	20.637 500
21/64	0.328 125	8.334 375	53/64	0.828 125	21.034 375
11/32	0.343 750	8.731 250	27/32	0.843 750	21.431 250
23/64	0.359 375	9.128 125	55/64	0.859 375	21.828 125
3/8	0.375 000	9.525 000	7/8	0.875 000	22.225 000
25/64	0.390 625	9.921 875	57/64	0.890 625	22.621 875
13/32	0.406 250	10.318 750	29/32	0.906 250	23.018 750
27/64	0.421 875	10.715 625	59/64	0.921 875	23.415 625
7/16	0.437 500	11.112 500	15/16	0.937 500	23.812 500
29/64	0.453 125	11.509 375	61/64	0.953 125	24.209 375
15/32	0.468 750	11.906 250	31/32	0.968 750	24.606 250
31/64	0.484 375	12.303 125	63/64	0.984 375	25.003 125
1/2	0.500 000	12.700 000	1	1.000 000	25.400 000

NOTE All values in table are exact

The chart below can be used to convert foot-pounds to meter-kilograms. The foot-pound column at the left increases in 10 ft.-lb. increments from 0 to 110 ft.-lbs. For each additional ft.-lb., read the top row of numbers. Example: If you desire 45 ft.-lbs., you would look to the number 40 in the left column and the number 5 in the top row. The conversion to meter-kilograms would be 6.22 mkgs. For your use, the conversion formula is:

FT.-LBS. X .1383 = METER-KILOGRAMS

Ft. Lbs.	0	1	2	3	4	5	6	7	8	9
	Mkgs	Mkgs	Mkgs	Mkgs	Mkgs	Mkgs	Mkgs	Mkgs	Mkgs	Mkgs
0	0	.14	.28	.42	.55	.69	.83	.97	1.11	1.25
10	1.38	1.52	1.66	1.80	1.94	2.07	2.21	2.35	2.49	2.63
20	2.77	2.90	3.04	3.18	3.32	3.46	3.60	3.73	3.87	4.01
30	4.15	4.29	4.43	4.56	4.70	4.84	4.98	5.12	5.26	5.39
40	5.53	5.67	5.81	5.95	6.09	6.22	6.36	6.50	6.64	6.78
50	6.92	7.05	7.19	7.33	7.47	7.61	7.75	7.88	8.02	8.16
60	8.30	8.44	8.57	8.71	8.85	8.90	9.13	9.27	9.40	9.54
70	9.68	9.82	9.96	10.09	10.23	10.37	10.51	10.65	10.79	10.92
80	11.01	11.20	11.34	11.48	11.62	11.75	11.89	12.03	12.17	12.31
90	12.45	12.59	12.73	12.86	13.00	13.14	13.28	13.42	13.55	13.69
100	13.83	13.97	14.11	14.25	14.38	14.52	14.66	14.80	14.94	15.08
110	15.21	15.35	15.49	15.63	15.76	15.90	16.04	16.18	16.32	16.46

CONVERSION FROM MILLIMETERS TO INCHES

mm	inch	mm	inch	mm	inch
1	0.039 370 08	36	1.417 322 8	71	2.795 275 6
2	0.078 740 16	37	1.456 692 9	72	2.834 645 7
3	0.118 110 24	38	1.496 063 0	73	2.874 015 7
4	0.157 480 31	39	1.535 433 1	74	2.913 385 8
5	0.196 850 39	40	1.574 803 1	75	2.952 755 9
6	0.236 220 47	41	1.614 173 2	76	2.992 126 0
7	0.275 590 55	42	1.653 543 3	77	3.031 496 1
8	0.314 960 63	43	1.692 913 4	78	3.070 866 1
9	0.354 330 71	44	1.732 283 5	79	3.110 236 2
10	0.393 700 8	45	1.771 653 5	80	3.149 606 3
11	0.433 070 9	46	1.811 023 6	81	3.188 976 4
12	0.472 440 9	47	1.850 393 7	82	3.228 346 5
13	0.511 811 0	48	1.889 763 8	83	3.267 716 5
14	0.551 181 1	49	1.929 133 9	84	3.307 086 6
15	0.590 551 2	50	1.968 503 9	85	3.346 456 7
16	0.629 921 3	51	2.007 874 0	86	3.385 826 8
17	0.669 291 3	52	2.047 244 1	87	3.425 196 8
18	0.708 661 4	53	2.086 614 2	88	3.464 566 9
19	0.748 031 5	54	2.125 984 2	89	3.503 937 0
20	0.787 401 6	55	2.165 354 3	90	3.543 307 1
21	0.826 771 7	56	2.204 724 4	91	3.582 677 2
22	0.866 141 7	57	2.244 094 5	92	3.622 047 2
23	0.905 511 8	58	2.283 464 6	93	3.661 417 3
24	0.944 881 9	59	2.322 834 6	94	3.700 787 4
25	0.984 252 0	60	2.362 204 7	95	3.740 157 5
26	1.023 622 0	61	2.401 574 8	96	3.779 527 6
27	1.062 992 1	62	2.440 944 9	97	3.818 897 6
28	1.102 362 2	63	2.480 315 0	98	3.858 267 7
29	1.141 732 3	64	2.519 685 0	99	3.897 637 8
30	1.181 102 4	65	2.559 055 1	100	3.937 008
31	1.220 472 4	66	2.598 425 2		
32	1.259 842 5	67	2.637 795 3		
33	1.299 212 6	68	2.677 165 4		
34	1.338 582 7	69	2.716 535 4		
35	1.377 952 8	70	2.755 905 5		

FORMULA TO CONVERT mm TO INCHES: Divide 25.4 into known mm.

NOTE: The inch values in this table are rounded off.

CONVERSION FROM DECIMAL INCHES TO MILLIMETERS

inch	mm	inch	mm	inch	mm
1	25.4	36	914.4	71	1 803.4
2	50.8	37	939.8	72	1 828.8
3	76.2	38	965.2	73	1 854.2
4	101.6	39	990.6	74	1 879.6
5	127.0	40	1 016.0	75	1 905.0
6	152.4	41	1 041.4	76	1 930.4
7	177.8	42	1 066.8	77	1 955.8
8	203.2	43	1 092.2	78	1 981.2
9	228.6	44	1 117.6	79	2 006.6
10	254.0	45	1 143.0	80	2 032.0
11	279.4	46	1 168.4	81	2 057.4
12	304.8	47	1 193.8	82	2 082.8
13	330.2	48	1 219.2	83	2 108.2
14	355.6	49	1 244.6	84	2 133.6
15	381.0	50	1 270.0	85	2 159.0
16	406.4	51	1 295.4	86	2 184.4
17	431.8	52	1 320.8	87	2 209.8
18	457.2	53	1 346.2	88	2 235.2
19	482.6	54	1 371.6	89	2 260.6
20	508.0	55	1 397.0	90	2 286.0
21	533.4	56	1 422.4	91	2 311.4
22	558.8	57	1 447.8	92	2 336.8
23	584.2	58	1 473.2	93	2 362.2
24	609.6	59	1 498.6	94	2 387.6
25	635.0	60	1 524.0	95	2 413.0
26	660.4	61	1 549.4	96	2 438.4
27	685.8	62	1 574.8	97	2 463.8
28	711.2	63	1 600.2	98	2 489.2
29	736.6	64	1 625.6	99	2 514.6
30	762.0	65	1 651.0	100	2 540.0
31	787.4	66	1 676.4		
32	812.8	67	1 701.8		
33	838.2	68	1 727.2		
34	863.6	69	1 752.6		
35	889.0	70	1 778.0		

NOTE: All values in this table are exact.

Courtesy Petersen Publishing Company

WHITWORTH, METRIC & INCH CONVERSION

COMPARISON OF U.S., METRIC AND WHITWORTH WRENCH SIZES

U.S.	METRIC	WHITWORTH	DECIMAL INCHES	OPEN-END WRENCH		BOX-END OR SOCKET WRENCH	
NOMINAL NUT SIZE				MIN.	MAX.	MIN.	MAX.
5/32			.156	.158	.161	.158	.163
	4mm		.157	.159	.162	.159	.164
		7BA	.172	.174	.177	.174	.179
3/16			.187	.190	.193	.190	.195
		6BA	.193	.195	.198	.195	.200
	5mm		.197	.199	.202	.199	.204
13/64			.203	.205	.208	.205	.210
7/32			.218	.221	.224	.221	.226
		5BA	.220	.222	.225	.222	.227
15/64			.234	.236	.239	.236	.241
	6mm		.236	.238	.241	.238	.243
		4BA	.248	.250	.253	.250	.255
1/4			.250	.252	.255	.252	.257
17/64			.265	.268	.271	.268	.273
	7mm		.276	.278	.281	.278	.283
9/32			.281	.284	.288	.284	.290
		3BA	.282	.284	.288	.284	.289
5/16			.312	.316	.320	.316	.322
	8mm		.315	.317	.321	.317	.322
		2BA	.324	.327	.331	.327	.333
		1/8W	.338	.341	.345	.341	.347
11/32			.343	.347	.351	.347	.353
	9mm		.354	.357	.361	.357	.363
		1BA	.365	.368	.372	.368	.374
3/8			.375	.378	.382	.378	.384
	10mm		.393	.396	.400	.396	.402
		OBA	.413	.416	.420	.416	.422
	11mm		.433	.436	.440	.436	.442
7/16			.437	.440	.444	.440	.446
		3/16W	.448	.451	.455	.451	.457
15/32			.468	.472	.476	.472	.478
	12mm		.472	.475	.479	.475	.481
1/2			.500	.504	.508	.504	.510
	13mm		.512	.516	.520	.516	.522
		1/4W	.525	.529	.533	.529	.535
17/32			.531	.535	.539	.535	.541
	14mm		.551	.555	.559	.555	.561
9/16			.562	.566	.570	.566	.573
	15mm		.591	.595	.599	.595	.601
19/32			.593	.598	.602	.598	.604
		5/16W	.600	.604	.608	.604	.612
5/8			.625	.629	.633	.629	.636
	16mm		.630	.634	.638	.634	.642
21/32			.656	.661	.665	.661	.668
	17mm		.669	.673	.677	.673	.681
11/16			.687	.692	.696	.692	.699
	18mm		.709	.715	.720	.715	.723
		3/8W	.710	.715	.720	.715	.723
	19mm		.748	.753	.758	.758	.761
3/4			.750	.755	.760	.755	.763
25/32			.781	.786	.791	.786	.794
	20mm		.787	.792	.797	.792	.800
13/16			.812	.818	.823	.818	.826
		7/16W	.820	.825	.830	.825	.833
	21mm		.827	.832	.837	.832	.840
	22mm		.866	.871	.876	.871	.879
7/8			.875	.880	.885	.880	.888
	23mm		.906	.911	.916	.911	.920
29/32			906	.911	.916	.911	.920
		1/2W	.920	.925	.930	.925	.934
15/16			.937	.944	.949	.944	.953
	24mm		.945	.950	.955	.950	.959
31/32			.968	.975	.981	.975	.984
	25mm		.984	.990	.996	.990	.999
1			1.000	1.006	1.012	1.006	1.015
		9/16W	1.010	1.016	1.022	1.016	1.025
	26mm		1.024	1.030	1.036	1.030	1.039
1-1/16			1.062	1.068	1.074	1.068	1.077
	27mm		1.063	1.069	1.075	1.069	1.078
		5/8W	1.100	1.107	1.113	1.107	1.117
	28mm		1.102	1.109	1.115	1.109	1.119
1-1/8			1.125	1.132	1.139	1.132	1.142
	29mm		1.142	1.149	1.156	1.149	1.159
	30mm		1.181	1.188	1.195	1.188	1.198
1-3/16			1.187	1.195	1.202	1.195	1.205
		11/16W	1.200	1.207	1.214	1.207	1.217
	31mm		1.220	1.227	1.234	1.227	1.237
1-1/4			1.250	1.258	1.266	1.258	1.269
	32mm		1.260	1.267	1.275	1.267	1.277
	33mm		1.299	1.306	1.314	1.306	1.316

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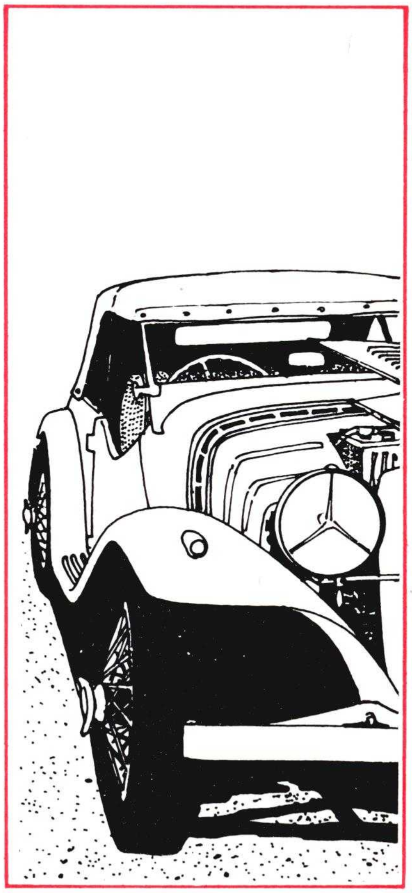
WHITWORTH WRENCH SIZES

Unless you work with British automobiles, you won't be too concerned with this information; but if you do, it should prove quite helpful. For years the British have used a Whitworth thread on nuts, screws and bolts, thus creating the Whitworth wrench size. This screw thread form is used for the British Standard Whitworth (BSW) and the British Standard Five (BSF). There were approximately 107,000 British automobiles imported into the U.S. in 1973, most of them using the Whitworth System. Since the British have completed the changeover to the metric system, the Whitworth thread form should only be used for replacement or spare parts. The chart gives you the U.S., metric and British Whitworth wrench sizes and a comparison in decimal inches.



BOLT SIZING CHART

BOLT SIZING CHART

NOMINAL OPENING SIZES OF WRENCHES OR SOCKETS IN INCHES TO FIT STANDARD BOLT HEADS, NUTS AND SCREW HEADS

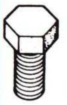
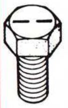
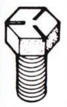
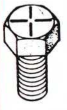
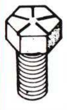
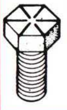
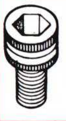
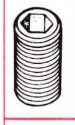
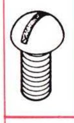
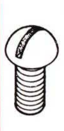
Locate thread diameter of bolt, nut or screw in extreme left or right column. Then move across to box which has proper identification of bolt, nut or screw at top of vertical column. The size in this particular box is the nominal opening size in inches of the wrench or socket that will fit.

American Standards Association—ASA B18.2, Appendix I

	NUTS				BOLTS AND SCREWS					
THREAD DIAMETER OF NUT	FINISHED SERIES AND FINISHED THICK NUTS	REGULAR SERIES HEX AND SQUARE NUTS	HEAVY SERIES HEX AND SQUARE NUTS	MACHINE SCREW NUTS AND STOVE BOLT NUTS	REGULAR AND FINISHED SERIES HEX AND SQUARE HEAD BOLTS	HEAVY SERIES HEX AND SQUARE HEAD BOLTS	LAG SCREWS	SQUARE HEAD SET SCREWS	THREAD DIAMETER OF BOLT OR SCREW
	Use wrench or socket size shown below				Use wrench or socket size shown below				
#0 & 1				5/32					#0 & 1
#2 & 3				3/16					#2 & 3
#4				1/4					#4
#5 & 6				5/16					#5 & 6
#8				11/32					#8
#10				3/8			5/16	3/16	#10
#12				7/16				7/32	#12
1/4"	7/16	7/16	1/2	7/16	†3/8 - 7/16		3/8	1/4	1/4"
5/16"	1/2	9/16	9/16	9/16	1/2		1/2	5/16	5/16"
3/8"	9/16	5/8	11/16	5/8	9/16		9/16	3/8	3/8"
7/16"	11/16	3/4	3/4		5/8		5/8	7/16	7/16"
1/2"	3/4	13/16	7/8		3/4	7/8	3/4	1/2	1/2"
9/16"	7/8	7/8	15/16		13/16			9/16	9/16"
5/8"	15/16	1	1 1/16		15/16	1 1/16	15/16	5/8	5/8"
3/4"	1 1/8	1 1/8	1 1/4		1 1/8	1 1/4	1 1/8	3/4	3/4"
7/8"	1 5/16	1 5/16	1 7/16		1 5/16	1 7/16	1 5/16	7/8	7/8"
1"	1 1/2	1 1/2	1 5/8		1 1/2	1 5/8	1 1/2	1	1"
1 1/8"	1 11/16	1 11/16	1 13/16		1 11/16	1 13/16	1 11/16	1 1/8	1 1/8"
1 1/4"	1 7/8	1 7/8	2		1 7/8	2	1 7/8	1 1/4	1 1/4"
1 3/8"	2 1/16	2 1/16	2 3/16		2 1/16	2 3/16		1 3/8	1 3/8"
1 1/2"	2 1/4	2 1/4	2 3/8		2 1/4	2 3/8		1 1/2	1 1/2"
1 5/8"	2 7/16	2 7/16	2 9/16		2 7/16	2 9/16			1 5/8"
1 3/4"	2 5/8	2 5/8	2 3/4		2 5/8	2 3/4			1 3/4"
1 7/8"	2 13/16	2 13/16	2 15/16		2 13/16	2 15/16			1 7/8"
2"	3	3	3 1/8		3	3 1/8			2"
2 1/4"	3 3/8	3 3/8	3 1/2		3 3/8	3 1/2			2 1/4"
2 1/2"	3 3/4	3 3/4	3 7/8		3 3/4	3 7/8			2 1/2"
2 3/4"	4 1/8	4 1/8	4 1/4		4 1/8	4 1/4			2 3/4"
3"	4 1/2	4 1/2	4 5/8		4 1/2	4 5/8			3"
3 1/4"			5		4 7/8				3 1/4"
3 1/2"			5 3/8		5 1/4				3 1/2"
3 3/4"			5 3/4		5 5/8				3 3/4"
4"			6 1/8		6				4"

†Regular Square Bolts Only.

STANDARD TORQUE VALUES CHART

FASTENER	TYPE	MIN. TENSILE STRNGH.	MATERIAL	BODY SIZE OR OUTSIDE DIAMETER OF FASTENER																												
				2	3	4	5	6	8	10	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/4	2 1/2	2 3/4	3
	SAE 0-1-2	74,000 PSI	LOW CARBON STEEL								6	12	20	32	47	69	96	155	206	310	480	675	900	1100	1470	1900	2360	2750	3450	4400	7350	9500
	SAE 3	100,000 PSI	MEDIUM CARBON STEEL								9	17	30	47	69	103	145	234	372	551	872	1211	1624	1943	2660	3463	4695	5427	7226	8049	13450	17548
	SAE 5	120,000 PSI	MEDIUM CARBON HEAT TREAT STEEL								10	19	33	54	78	114	154	257	382	587	794	1105	1500	1775	2425	3150	4200	4550	6550	7175	13000	16000
	SAE 6	133,000 PSI	MEDIUM CARBON STEEL QUENCHED TEMPERED								12.5	24	43	69	106	150	209	350	550	825	1304	1815	2434	2913	3985	5189	6980	7491	10825	14983	20151	26286
	SAE 7	133,000 PSI	MEDIUM CARBON ALLOY STEEL								13	25	44	71	110	154	215	360	570	840	1325	1825	2500	3000	4000	5300	7000	7500	11000	15500	21000	27000
	SAE 8	150,000 PSI	MEDIUM CARBON ALLOY STEEL								14	29	47	78	119	169	230	380	600	**900**	1430	1975	2650	3200	4400	5650	7600	8200	12000	17000	23000	29000
	SOCKET HEAD CAP SCREW	160,000 PSI	HIGH CARBON CASE HARDENED STEEL	TORQUE VALUES: All figures are foot-pounds except those marked with an asterisk (*), which are inch-pounds.							16	33	54	84	125	180	250	400	640	970	1520	2130	2850	3450	4700	6100	8200	8800	13000	18000	24000	31000
	SOCKET SET SCREW	212,000 PSI	HIGH CARBON CASE HARDENED STEEL					9*	16*	30*	70*	140*	18	29	43	63	100	146														
	MACHINE SCREW YELLOW BRASS	60,000 PSI	COPPER (CU) 63% ZINC (ZU) 37%	2*	3.3*	4.4*	6.4*	8*	16*	20*	65*	110*	17	27	37	49	78	104	160	215	325	400		595								
	SILICONE BRONZE TYPE "B"	70,000 PSI	COPPER (CU) 96% ZINC (ZNI) 2% SILICON (SI) 2%	2.3*	3.7*	4.9*	7.2*	10*	19*	22*	70*	125*	20	30	41	53	88	117	180	250	365	450		655								
STUDS 	Use SAE 2, 5 or 8 values when grade is known, with a nut of sufficient strength.																															

There is no difference in the above chart between the torque figures for fine or coarse threads. The torque figures for a finely-threaded fastener as compared to a coarsely-threaded fastener of the same diameter may be slightly higher but hardly worth mentioning.

CAUTION

There are many varying factors which affect torque. The figures in this chart are safe figures for standard torque applications only.

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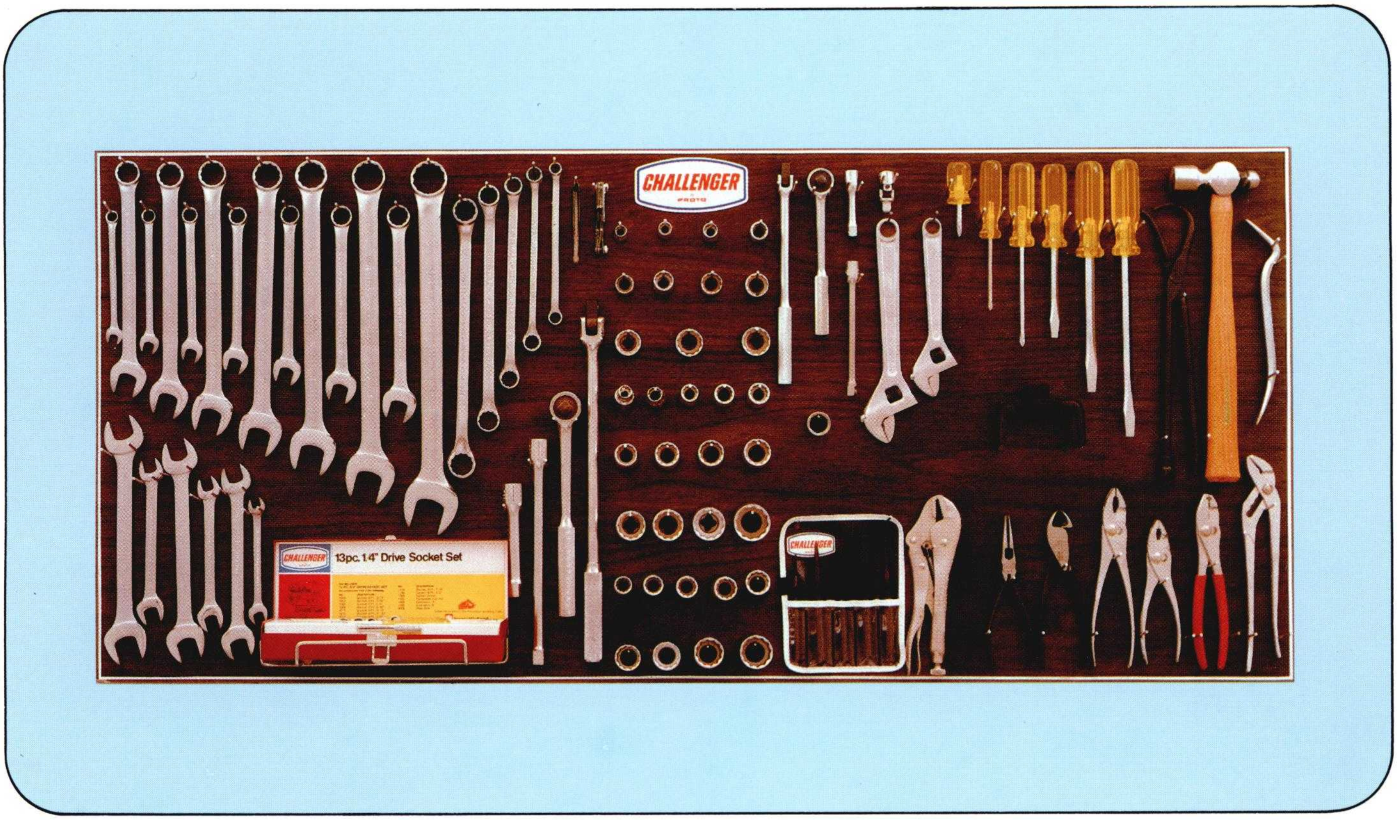
MECHANIC'S HAND TOOL PANEL



MECHANIC'S HAND TOOL PANEL

The ideal back-up for any mechanic's work bench. Designed for service stations, garages, repair shops. Anywhere hand tools are used. Panel is marked with outline and size of each tool for quick, easy selection and replacement. Lets you spot missing tools immediately. Includes 107 of the most frequently used hand tools, organized in one place by type and size. Panel is 24" x 54" and constructed of 5/8" heavy duty plywood with beautiful wood grain finish. Comes ready for mounting.

No. 70R. 108 Piece Mechanic's Tool Panel (As Shown)

No. 70R-STK. Tools only.

Tool No.	Description
2304	13 Piece 1/4" Drive Socket Set (Includes one each of the following 1/4" drive items):
1006	1/4" Drive Socket, 6 Pt., 3/16"
1007	1/4" Drive Socket, 6 Pt., 7/32"
1008	1/4" Drive Socket, 6 Pt., 1/4"
1009	1/4" Drive Socket, 6 Pt., 9/32"
1010	1/4" Drive Socket, 6 Pt., 5/16"
1011	1/4" Drive Socket, 6 Pt., 11/32"
1012	1/4" Drive Socket, 6 Pt., 3/8"
1014	1/4" Drive Socket, 6 Pt., 7/16"
1016	1/4" Drive Socket, 6 Pt., 1/2"
1060	1/4" Drive Reversible Ratchet
1065	1/4" Drive Extension, 3"
1066	1/4" Drive Extension, 6"
1069	1/4" Drive Socket Driver
1212	3/8" Drive Socket, 12 Pt., 3/8"
1214	3/8" Drive Socket, 12 Pt., 7/16"
1216	3/8" Drive Socket, 12 Pt., 1/2"
1218	3/8" Drive Socket, 12 Pt., 9/16"
1220	3/8" Drive Socket, 12 Pt., 5/8"
1222	3/8" Drive Socket, 12 Pt., 11/16"
1224	3/8" Drive Socket, 12 Pt., 3/4"
1226	3/8" Drive Socket, 12 Pt., 13/16"
1228	3/8" Drive Socket, 12 Pt., 7/8"
1230	3/8" Drive Socket, 12 Pt., 15/16"
1232	3/8" Drive Socket, 12 Point, 1"
1260	3/8" Drive Reversible Ratchet
1265	3/8" Drive Extension, 3"
1266	3/8" Drive Extension, 6"
1270	3/8" Drive Flex Handle
1280	3/8" Drive Universal Joint
1326HP	3/8" Drive Spark Plug Skt., 13/16"
1614	1/2" Drive Socket, 12 Pt., 7/16"
1616	1/2" Drive Socket, 12 Pt., 1/2"
1618	1/2" Drive Socket, 12 Pt., 9/16"
1620	1/2" Drive Socket, 12 Pt., 5/8"
1622	1/2" Drive Socket, 12 Pt., 11/16"
1624	1/2" Drive Socket, 12 Pt., 3/4"
1626	1/2" Drive Socket, 12 Pt., 13/16"
1628	1/2" Drive Socket, 12 Pt., 7/8"
1630	1/2" Drive Socket, 12 Pt., 15/16"
1632	1/2" Drive Socket, 12 Pt., 1"
1634	1/2" Drive Socket, 12 Pt., 1-1/16"
1636	1/2" Drive Socket, 12 Pt., 1-1/8"
1640	1/2" Drive Socket, 12 Pt., 1-1/4"
1660	1/2" Drive Reversible Ratchet
1666	1/2" Drive Extension, 5"
1667	1/2" Drive Extension, 10"
1670	1/2" Drive Flex Handle
1718	1/2" Dr. Deep Skt., 12 Pt., 9/16"
1720	1/2" Dr. Deep Skt., 12 Pt., 5/8"
1722	1/2" Dr. Deep Skt., 12 Pt., 11/32"
1724	1/2" Dr. Deep Skt., 12 Pt., 3/4"
1726	1/2" Dr. Deep Skt., 12 Pt., 13/16"
1728	1/2" Dr. Deep Skt., 12 Pt., 7/8"
1730	1/2" Dr. Deep Skt., 12 Pt., 15/16"
1732	1/2" Dr. Deep Skt., 12 Pt., 1"
1736	1/2" Dr. Deep Skt., 12 Pt., 1-1/8"
3000G	Pliers, Hose Clamp
3001	Brake Adjusting Tool
3003	Oil Filter Wrench
3050G	Pliers, Needle Nose
3093	Pliers, Lever Jaw
3126	Pliers, Slip Joint, 6-3/8"
3148	Pliers, Slip Joint, 8"
3227	Pliers, Brake Spring
3339	Pliers, Water Pump
3377	Pliers, H. D. Diagonal
4008	Adjustable Wrench, 8"
4010	Adjustable Wrench, 10"
5714	Open End Wrench, 3/8" x 7/16"
5718	Open End Wrench, 1/2" x 9/16"
5720	Open End Wrench, 9/16" x 5/8"
5726	Open End Wrench, 11/16" x 3/4"
5728	Open End Wrench, 13/16" x 7/8"
5732	Open End Wrench, 15/16" x 1"
6112	Combination Wrench, 3/8"
6114	Combination Wrench, 7/16"
6116	Combination Wrench, 1/2"
6118	Combination Wrench, 9/16"
6120	Combination Wrench, 5/8"
6122	Combination Wrench, 11/16"
6124	Combination Wrench, 3/4"
6126	Combination Wrench, 13/16"
6128	Combination Wrench, 7/8"
6130	Combination Wrench, 15/16"
6132	Combination Wrench, 1"
6134	Combination Wrench, 1-1/16"
6136	Combination Wrench, 1-1/8"
6140	Combination Wrench, 1-1/4"
6414	Box Wrench, 3/8" x 7/16"
6418	Box Wrench, 1/2" x 9/16"
6420	Box Wrench, 9/16" x 5/8"
6424	Box Wrench, 11/16" x 3/4"
6428	Box Wrench, 13/16" x 7/8"
7564	Screwdriver, 1/4" Sq. x 4"
7576	Screwdriver, 5/16" Sq. x 6"
7578	Screwdriver, 5/16" Sq. x 8"
7580	Screwdriver, Phillips #2 x 1-3/8"
7581	Screwdriver, Phillips #1 x 3"
7582	Screwdriver, Phillips #2, x 4-1/2"
8516	Ball Pein Hammer, 1 Lb.
0670	9 Blade Feeler Gauge Set
0677	8 Gauge Spark Plug Gap Set
99A	5 Piece Punch and Chisel Set (Includes one each of the following Punches and Chisels)
61A	Pin Punch, 3/32" End Diameter
64A	Pin Punch, 3/16" End Diameter
72A	Cold Chisel, 3/8" Cut
73A	Cold Chisel, 7/16" Cut
87A	Prick Punch
70R-MDR	Tool Panel, 5/8" x 24" x 54"

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